STR-K650P

SERVICE MANUAL

US Model

Ver 1.0 2003. 04

• STR-K650P is the tuner and the amplifier section in HT-DDW650.

Dolby Laboratories Licensing Corporation.
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SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 40 – 20,000 Hz; rated 70 watts per channel minimum RMS power, with no more than 0.7 % total harmonic distortion from 250 milliwatts to rated output (Models of area code U only).

Amplifier section

POWER OUTPUT

Rated Power Output at Stereo Mode
(8 ohms 40 Hz – 20 kHz, THD 0.7 %)
70 W + 70 W

Reference Power Output
(8 ohms 1 kHz, THD 0.7 %)
FRONT[1]:80 W/ch
CENTER[1]: 80 W
SURR[1]: 80 W/ch

1) Depending on the sound field settings and the source, there may be no sound output.

Frequency response

CD, MD/TAPE, DVD, VIDEO 1, 2	10 Hz – 50 kHz +0.5/–2 dB (with sound field and tone bypassed)

Inputs (Analog)

CD, MD/TAPE, DVD, VIDEO 1, 2	Sensitivity: 500 mV Impedance: 50 kilohms S/N[2]: 96 dB (A, 500 mV[3])

2) INPUT SHORT (with sound field and tone bypassed).
3) Weighted network, input level.

Inputs (Digital)

DVD (Coaxial)	Sensitivity: – Impedance: 75 ohms S/N: 100 dB (A, 20 kHz LPF)
VIDEO 2 (Optical)	Sensitivity: – Impedance: – S/N: 100 dB (A, 20 kHz LPF)

Outputs

MD/TAPE (OUT), VIDEO 1 (AUDIO OUT)	Voltage: 500 mV Impedance: 10 kilohms
SUB WOOFER	Voltage: 2 V Impedance: 1 kilohms

Tone
Gain levels: ±6 dB, 1 dB step

— Continued on next page —

FM STEREO FM-AM RECEIVER

9-877-334-01
2003D167800-1
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Sony Corporation
Home Audio Company
Published by Sony Engineering Corporation

SONY®

FM tuner section

Tuning range 87.5 - 108.0 MHz

Antenna terminals 75 ohms, unbalanced

Intermediate Frequency
10.7 MHz

Sensitivity
Mono: 18.3 dBf, 2.2 µV/75 ohms
Stereo: 38.3 dBf, 22.5 µV/75 ohms

Usable sensitivity 11.2 dBf, 1 µV/75 ohms

S/N
Mono: 76 dB
Stereo: 70 dB

Harmonic distortion at 1 kHz
Mono: 0.3%
Stereo: 0.5%

Separation 45 dB at 1 kHz

Frequency response 30 Hz – 15 kHz, +0.5/–2 dB

Selectivity 60 dB at 400 kHz

AM tuner section

Tuning range
With 10-kHz tuning scale: 530 – 1710 kHz[4)]
With 9-kHz tuning scale: 531 – 1710 kHz[4)]

Antenna Loop antenna

Intermediate Frequency
450 kHz

Usable sensitivity 50 dB/m (at 1,000 kHz or 999 kHz)

S/N 54 dB (at 50 mV/m)

Harmonic distortion 0.5 % (50 mV/m, 400 Hz)

Selectivity
At 9 kHz: 35 dB
At 10 kHz: 40 dB

4) You can change the AM tuning scale to 9 kHz or 10 kHz. After tuning in any AM station, turn off the receiver. Hold down PRESET TUNING + and press I/⏻. All preset stations will be erased when you change the tuning scale. To reset the scale to 10 kHz (or 9 kHz), repeat the procedure.

Video section

Inputs
Video: 1 Vp-p, 75 ohms

Outputs
Video: 1 Vp-p, 75 ohms

General

Power requirements 120 V AC, 60 Hz

Power consumption 175 W

Power consumption (during standby mode)
0.3 W

Dimensions 430 × 145 × 298 mm (16 7/8 × 5 6/8 × 11 6/8 inches) including projecting parts and controls

Mass (Approx.) 7.2 kg (15 lb 14 oz)

Design and specifications are subject to change without notice.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.

2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

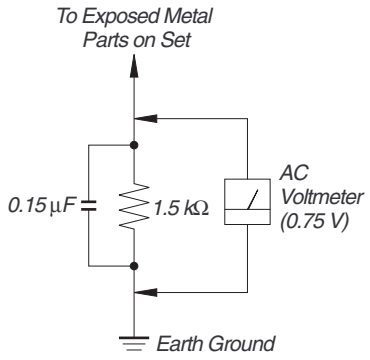

Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Unleaded solder

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40°C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350°C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

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SECTION 1
GENERAL

This section is extracted from instruction manual.

ALPHABETICAL ORDER

A – L

A. F. D. (button/indicator) 20 (22– 24)
CD 9 (20)
DIMMER 3 (21)
DISPLAY 2 (21, 31, 46)
Display 11 (21)
DVD 7 (20)
ENTER 15 (33, 35)
FM MODE 24 (29)
INPUT MODE 13 (20)
IR (receptor) 4 (36, 46)

M – O

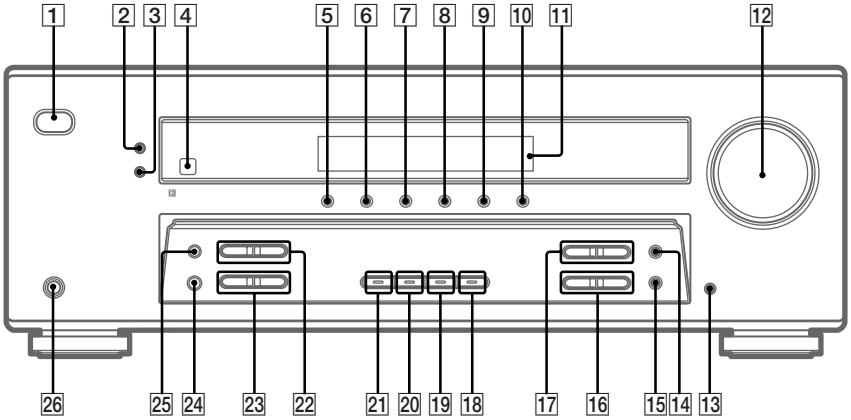
MAIN MENU 14 (15, 26, 27, 33, 34, 51)
MASTER VOLUME 12 (18, 20, 44)
MD/TAPE 8 (20)
MEMORY 25 (28, 30)
MENU +/– 16 (15, 26, 27, 33, 34, 51)
MENU </> 17 (15, 26, 27, 33, 34, 51)
MOVIE (button/indicator) 19 (23, 45)
MUSIC (button/indicator) 18 (23, 24, 45)

P – Z

PHONES (jack) 26 (20, 25, 45)
PRESET TUNING +/– 22 (30, 48)
TUNER FM/AM 10 (20, 29, 30, 33)
TUNING +/– 23 (29)
VIDEO 1 5 (20)
VIDEO 2 6 (20)

NUMBERS AND SYMBOLS

2CH (button/indicator) 21 (22, 24, 27)
I/⏻ (power) 1 (14, 19, 27, 28, 35, 48)



SECTION 2
TEST MODE

FACTORY PRESET MODE

* All preset contents are reset to the default setting.
* Procedure:
  While depressing the FM MODE and the PRESET TUNING– buttons simultaneously, press the I/⏻ button again. The message "FACTORY" appears and the present contents are reset to the default values.

AM CHANNEL STEP 9 KHZ/10 KHZ SELECTION MODE

* Either the 9 kHz step or 10 kHz step can be selected for the AM channel step.
* Procedure:
  Set the FUNCTION to AM. Turn off the main power.
  While depressing the TUNING+ button or the PRESET TUNING + button, press the I/⏻ button to turn on the main power. Either the message "9 k STEP" or "10 k STEP" appears. Select the desired step.

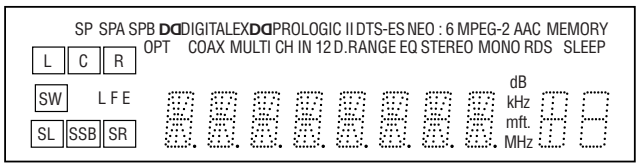
SPEAKER SIZE SELECTION MODE

*Either Normal Speaker or Micro Satellite Speaker can be selected.
*Procedure:
While depressing the MAIN MENU button, press the I/⏻ button to turn the main power.
Either the message "NORM. SP." or "MICRO SP." is displayed. Select the desired speaker size.

FLUORESCENT INDICATOR TUBE TEST MODE

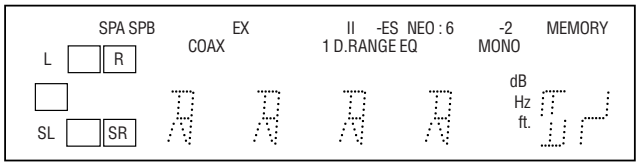
* All fluorescent segments are tested. When this test is activated, all segments turn on at the same time, then each segment turns on one after another.
* Procedure:
  While depressing the FM MODE and the MD/TAPE buttons simultaneously, press the I/⏻ button to turn on the main power.

1. All segments turn on.


SP SPA SPB DIGITALEX PROLOGIC II DTS-ES NEO : 6 MPEG-2 AAC MEMORY
OPT COAX MULTI CH IN 12 D.RANGE EQ STEREO MONO RDS SLEEP
L C R
SW LFE
SL SSB SR
dB
kHz
mft.
MHz

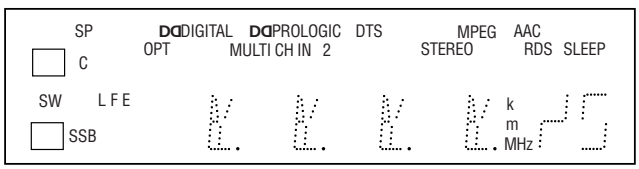
2CH, A. F. D, MOVIE and MUSIC LED turn on.

2. Press the VIDEO button, confirm display.



2CH and MOVIE LED turn on.

3. Press the VIDEO button, confirm display



A. F. D and MUSIC LED turn on.

4. Press the VIDEO1 button, All segments and all LEDS turn off.

5. Every pressing of the VIDEO1 button turns on each segment and LED one after another in the same order.
   (Not only the VIDEO1 button, but also the other buttons such as VIDEO2, DVD, MD/TAPE, CD and TUNER FM/AM can be used.)

SOUND FIELD CLEAR MODE

* The preset sound field is cleared when this mode is activated. Use this mode before returning the product to clients upon completion of repair.
* Procedure:
  While depressing the 2CH button, press the I/⏻ button to turn on the main power.
  The message "SF. CLR." appears and initialization is performed.

SOFTWARE VERSION DISPLAY MODE

* The software version is displayed.
* Procedure:
  While depressing the FM MODE and the DVD buttons simultaneously, press the I/⏻ button to turn on the main power.
  The model name, destination and the software version are displayed.

KEY CHECK MODE

* Button check
* Procedure:
  While depressing the MUSIC and the TUNING– buttons simultaneously, press the power I/⏻ button to turn on the main power.
  "REST 25" appears.
  Every pressing of any button other than I/⏻ counts down the buttons. The buttons which are already counted once are not counted again. When all buttons are pressed "REST 00" appears.

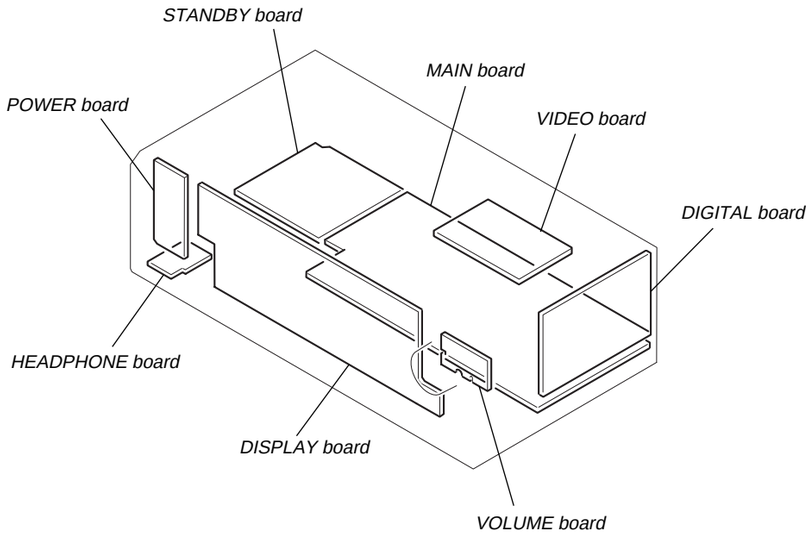
COMMAND MODE SELECTION MODE

* The command mode (AV1 or AV2) of the remote commander can be selected.
* Procedure:

1. While depressing the ENTER button, press the I/⏻ button to turn on the main power.
2. The message "C.MODE.AV 1" or "C.MODE.AV 2" appears for a moment. Select the desired mode.

SECTION 3
DIAGRAMS

3-1. Circuit Board Location



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this necessary note is printed in each block.)

For schematic diagrams.
Note:

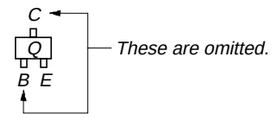
- All capacitors are in µF unless otherwise noted. p : pF. 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

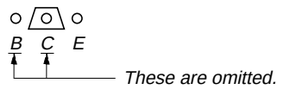
Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- : B+ Line.
- : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  No mark : FM
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
- Circled numbers refer to waveforms.
- Signal path.
  : FM
  : CD (ANALOG)
  : DVD (DIGITAL)

For printed wiring boards.
Note:

- : parts extracted from the component side.
- ○ : Through hole.
- △ : internal component.
- : Pattern from the side which enables seeing.



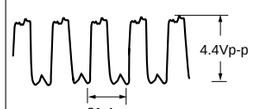


Caution:
Pattern face side: (Side A) — Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side B) — Parts on the parts face side seen from the parts face are indicated.

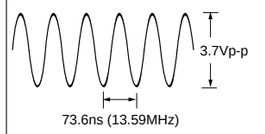
• Waveform

DIGITAL Board

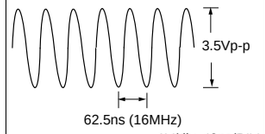
① IC1101 ㉑ (XOUT)



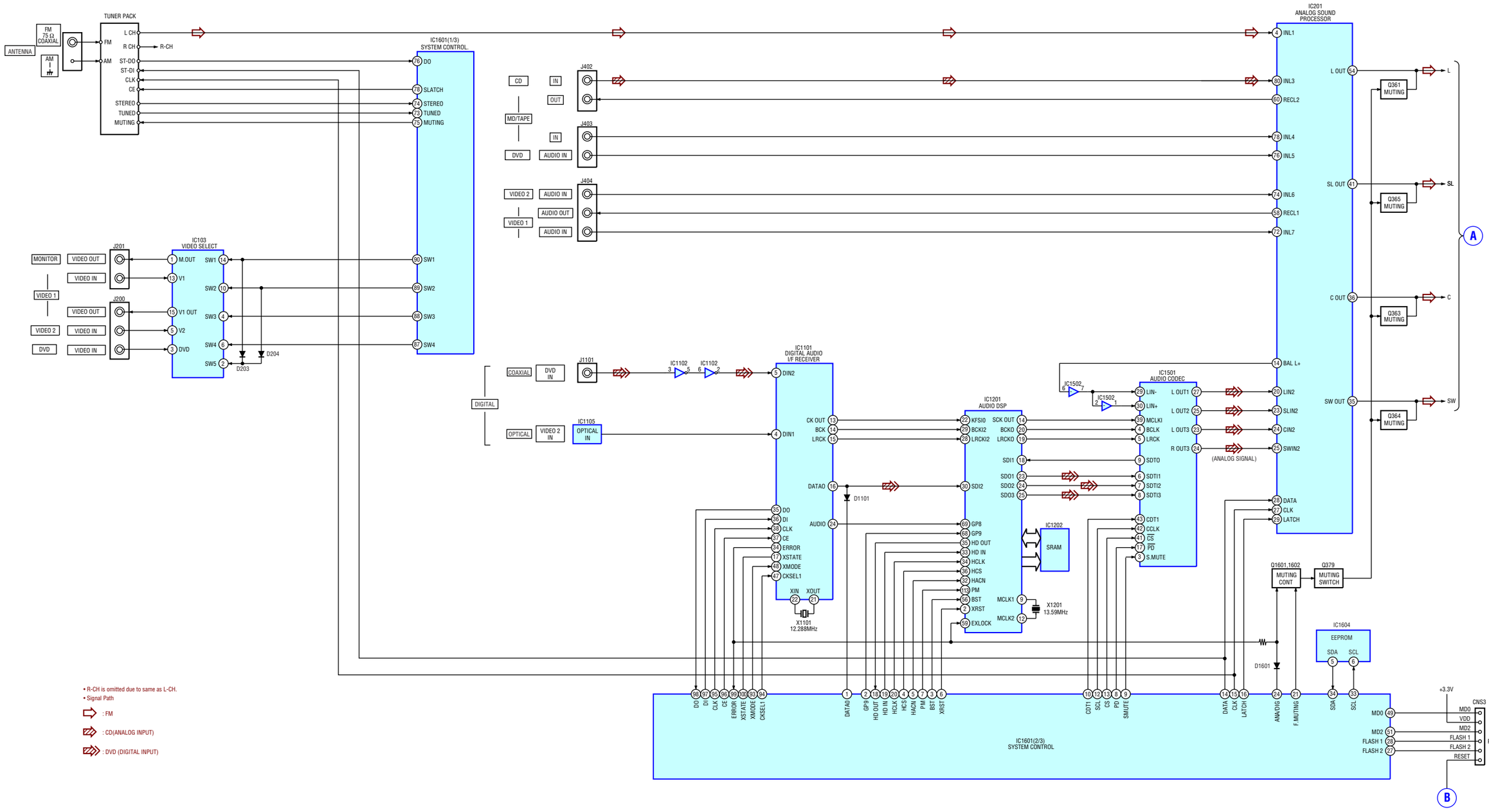
② IC1201 ⑨ (MCLK1)



③ IC1601 ㉝ (XI)



3-2. Block Diagrams – MAIN Section –



• R-CH is omitted due to same as L-CH.
• Signal Path

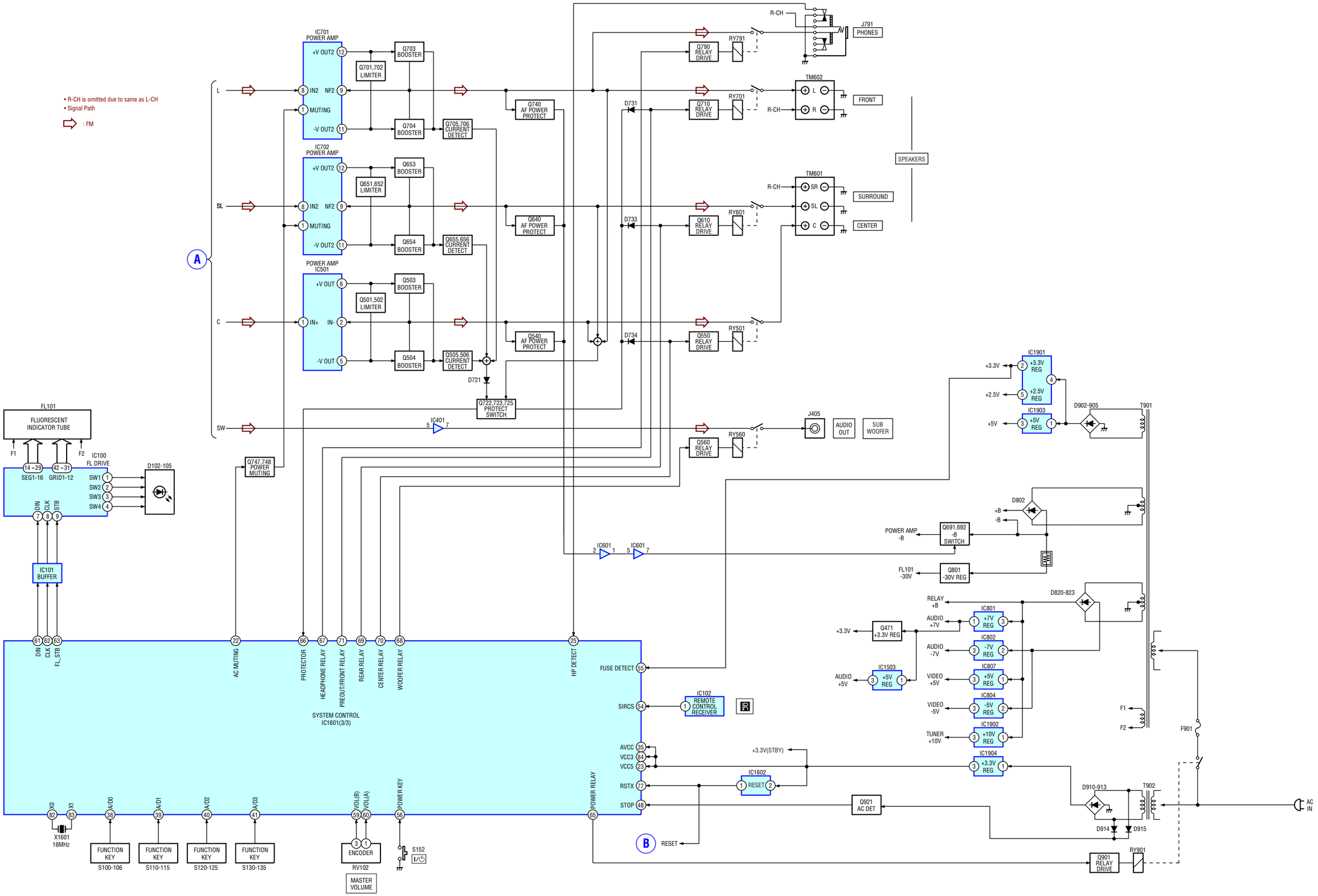
: FM

: CD(ANALOG INPUT)

: DVD (DIGITAL INPUT)

– DISPLAY/POWER Section –

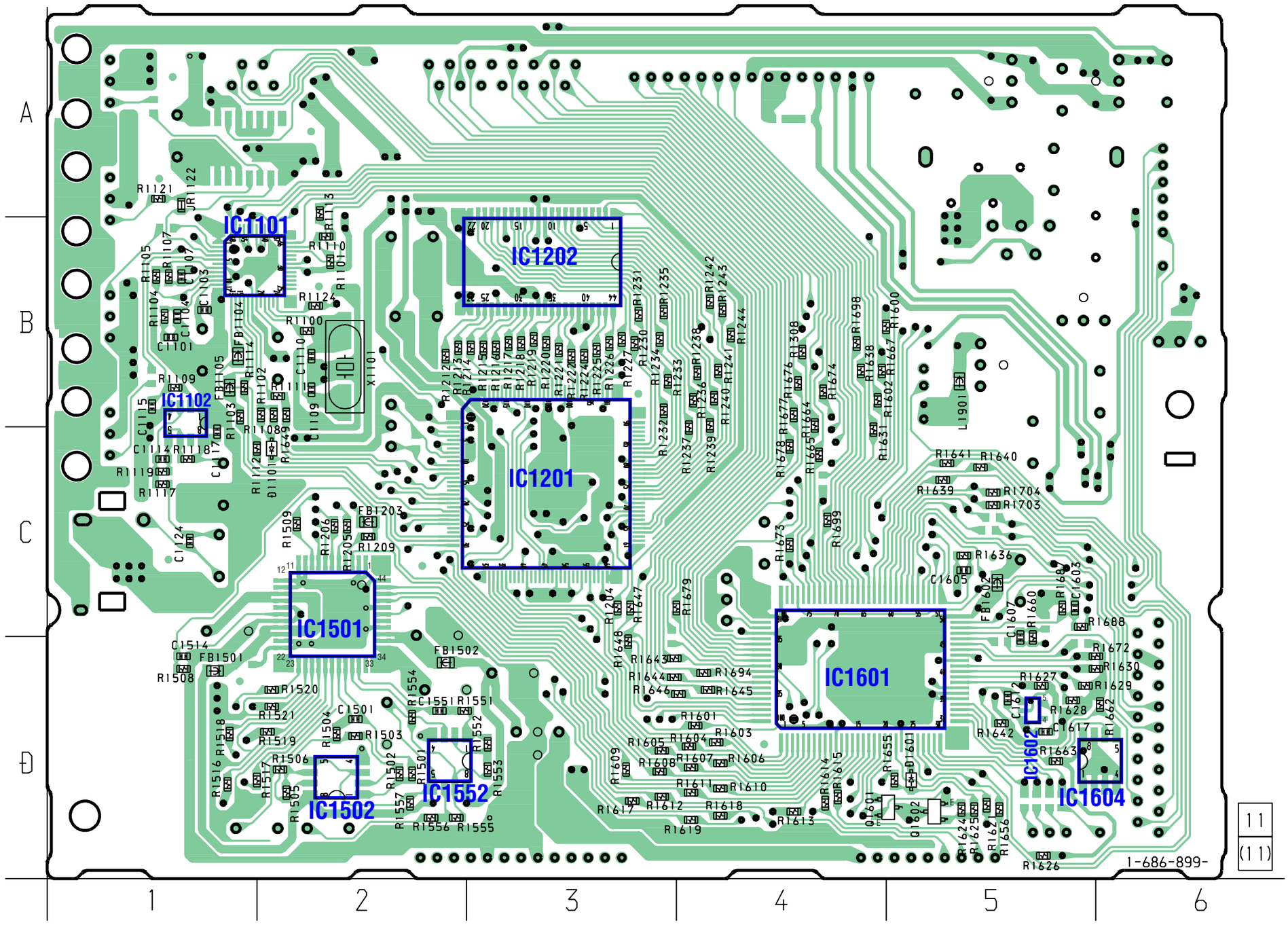
• R-CH is omitted due to same as L-CH
• Signal Path
: FM



3-3. Printed Wiring Board – DIGITAL Board (SIDE A) –

• See page 7 for Circuit Boards Location. • : Uses unleaded solder.

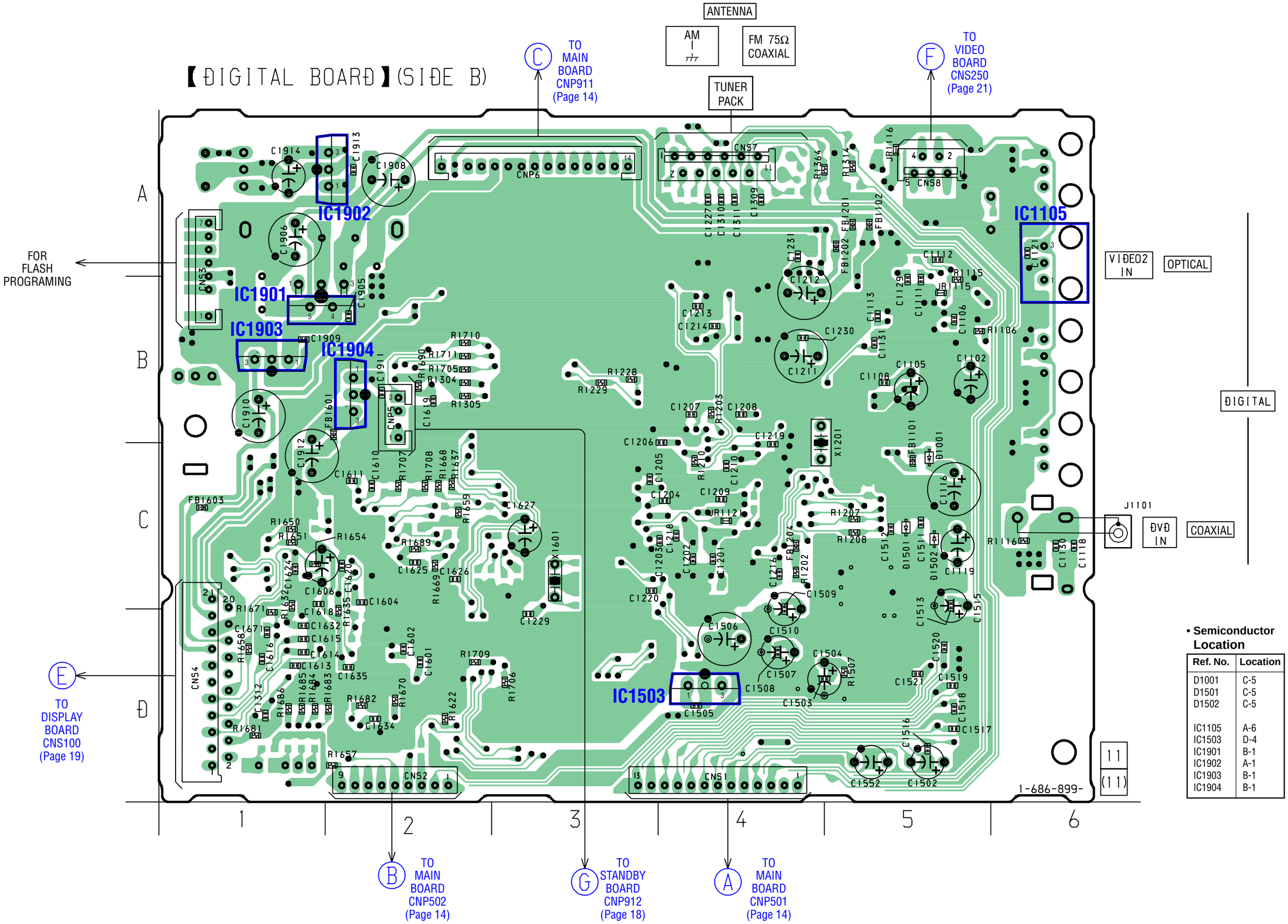
【DIGITAL BOARD】(SIDE A)



• **Semiconductor Location**

Ref. No.	Location
D1101	C-2
D1601	D-5
IC1101	B-2
IC1102	B-1
IC1201	C-3
IC1202	B-3
IC1501	D-2
IC1502	D-2
IC1552	D-2
IC1601	D-4
IC1602	D-5
IC1604	D-5
Q1601	D-4
Q1602	D-5

3-4. Printed Wiring Board – DIGITAL Board (SIDE B) – • See page 7 for Circuit Boards Location. • : Uses unleaded solder.

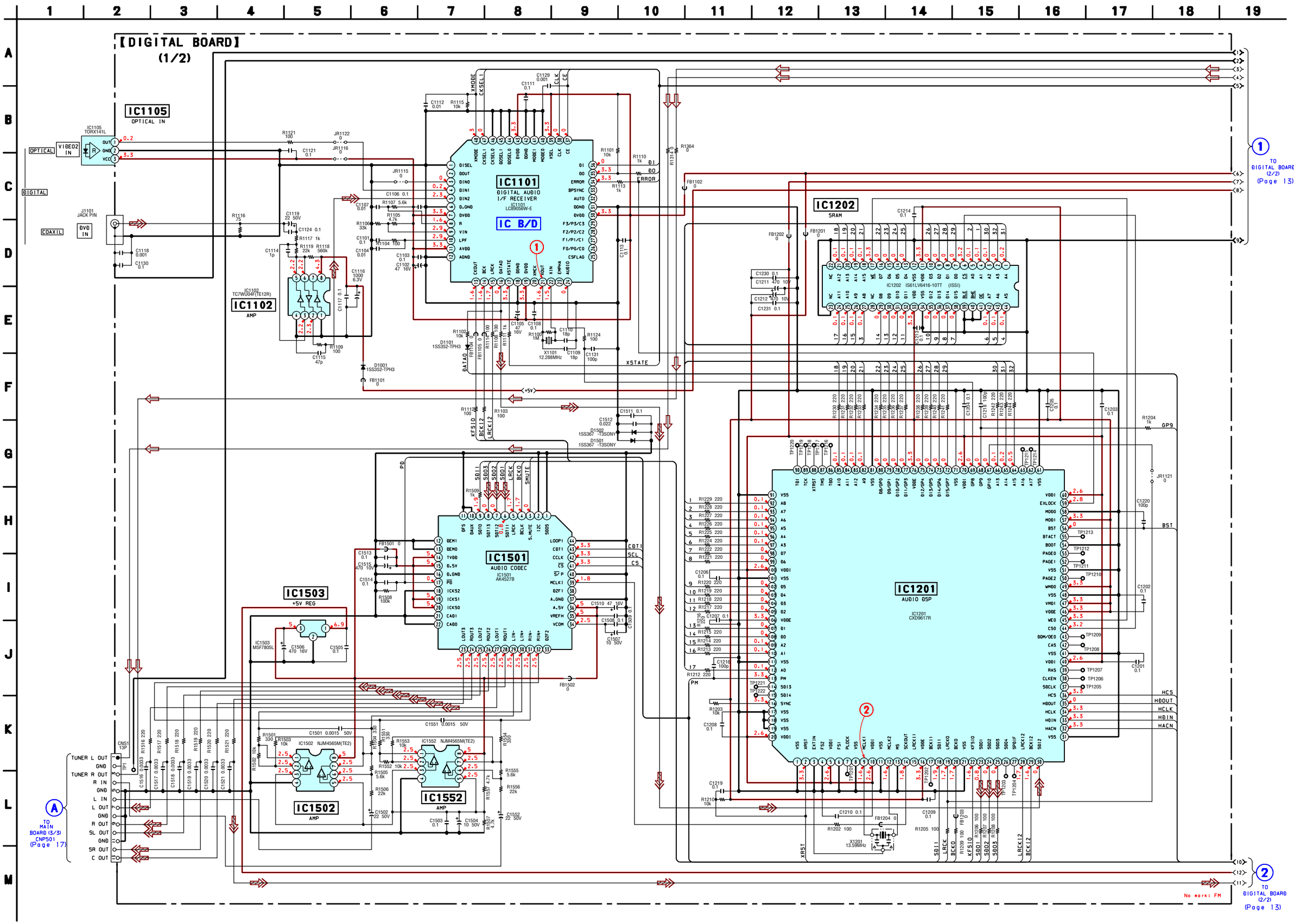


• **Semiconductor Location**

Ref. No.	Location
D1001	C-5
D1501	C-5
D1502	C-5
IC1105	A-6
IC1503	D-4
IC1901	B-1
IC1902	A-1
IC1903	B-1
IC1904	B-1

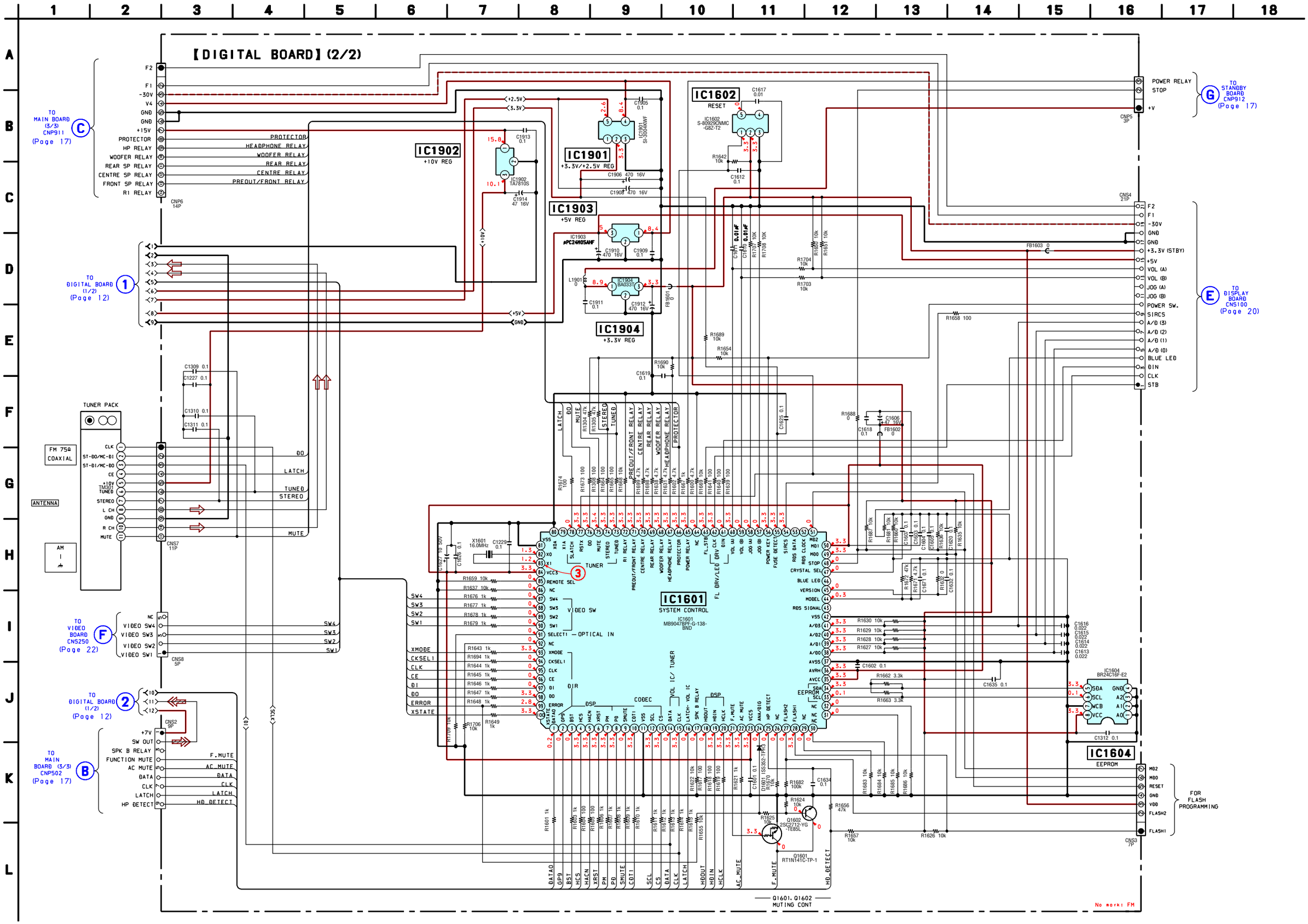
3-5. Schematic Diagram – DIGITAL Section (1/2) –

• See page 7 for Waveforms. • See page 23 for IC Block Diagrams.



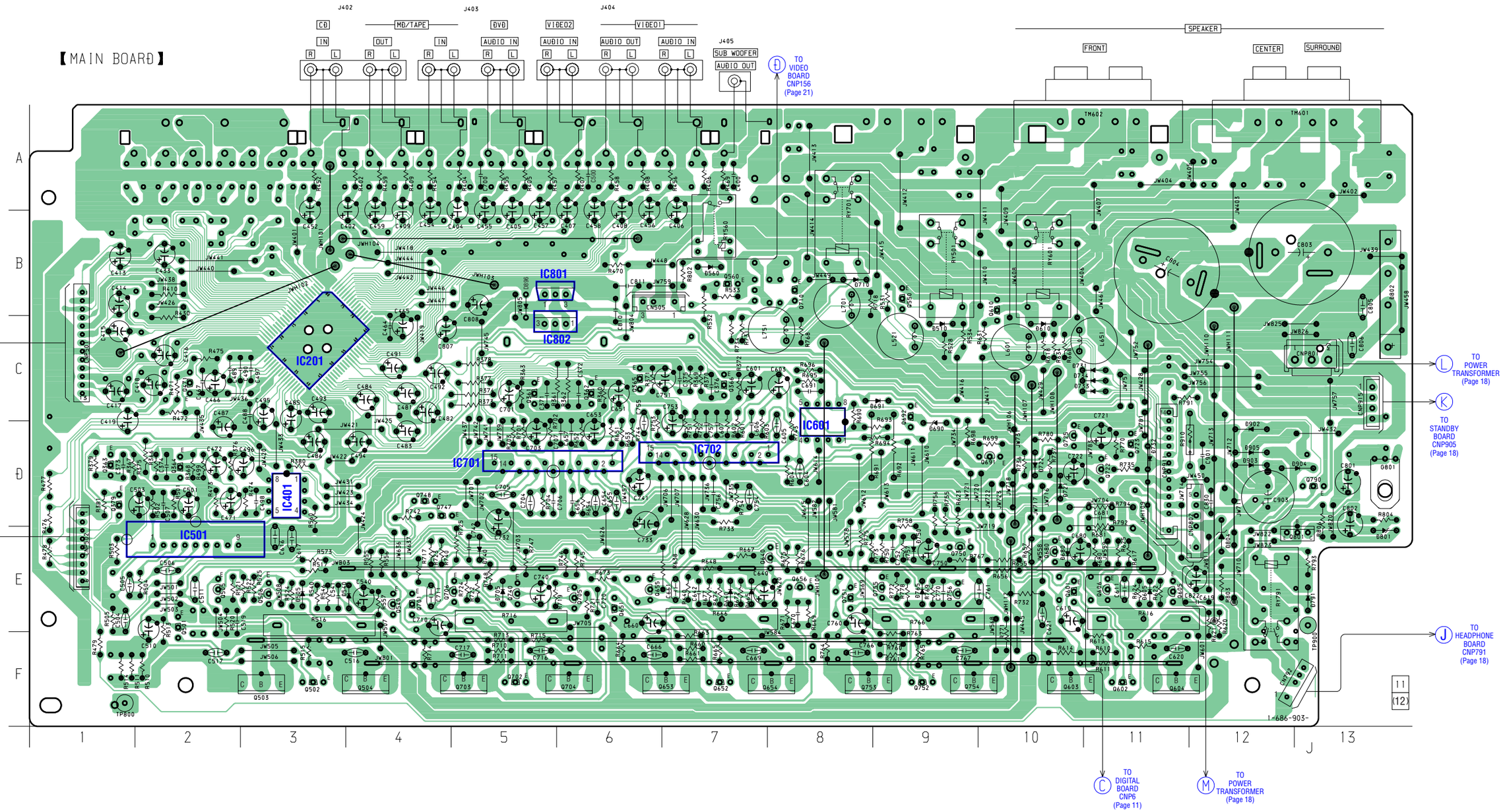
3-6. Schematic Diagram – DIGITAL Section (2/2) –

• See page 7 for Waveforms.



3-7. Printed Wiring Board – MAIN Board –

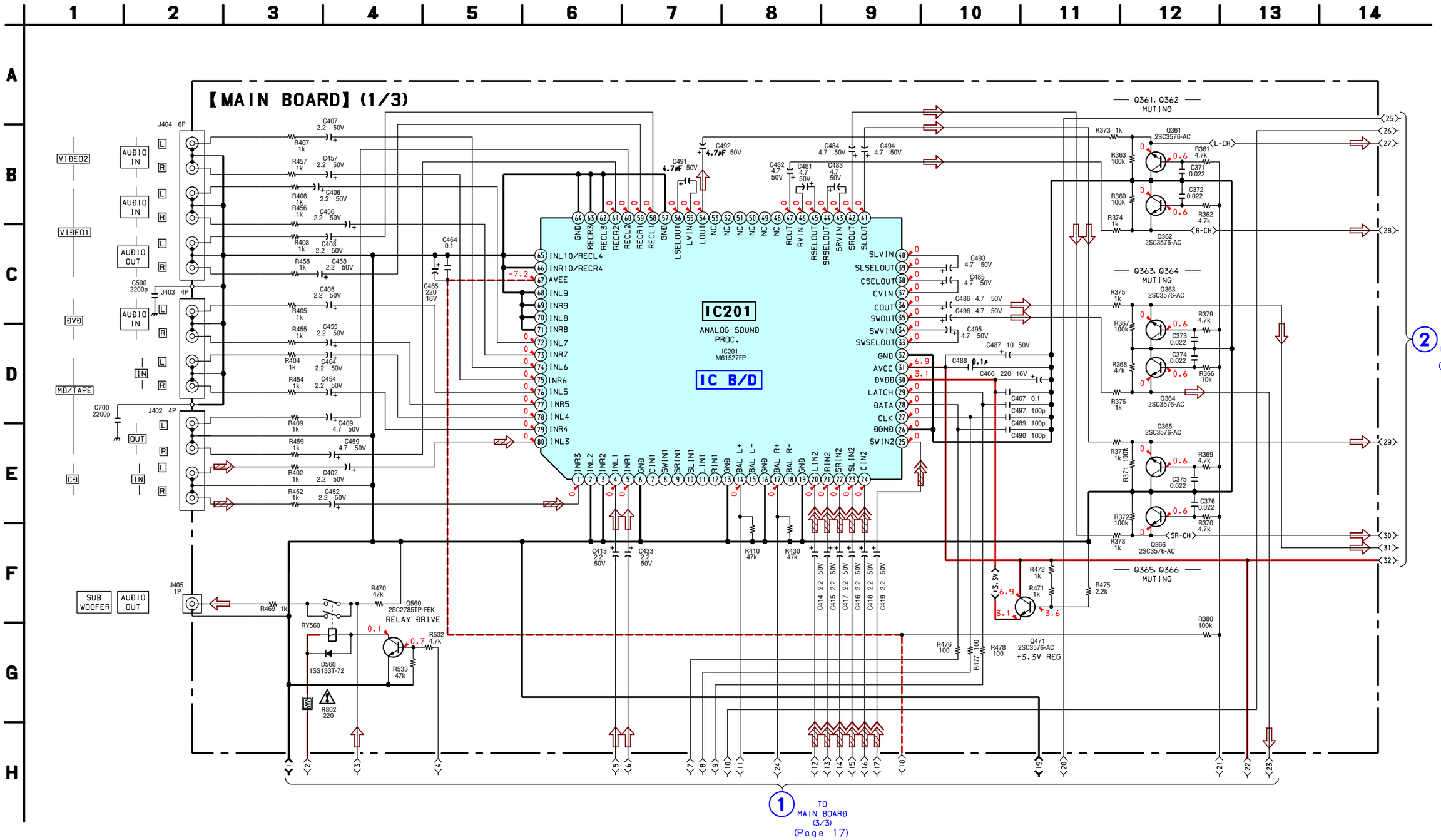
• See page 7 for Circuit Boards Location. • : Uses unleaded solder.



• Semiconductor Location

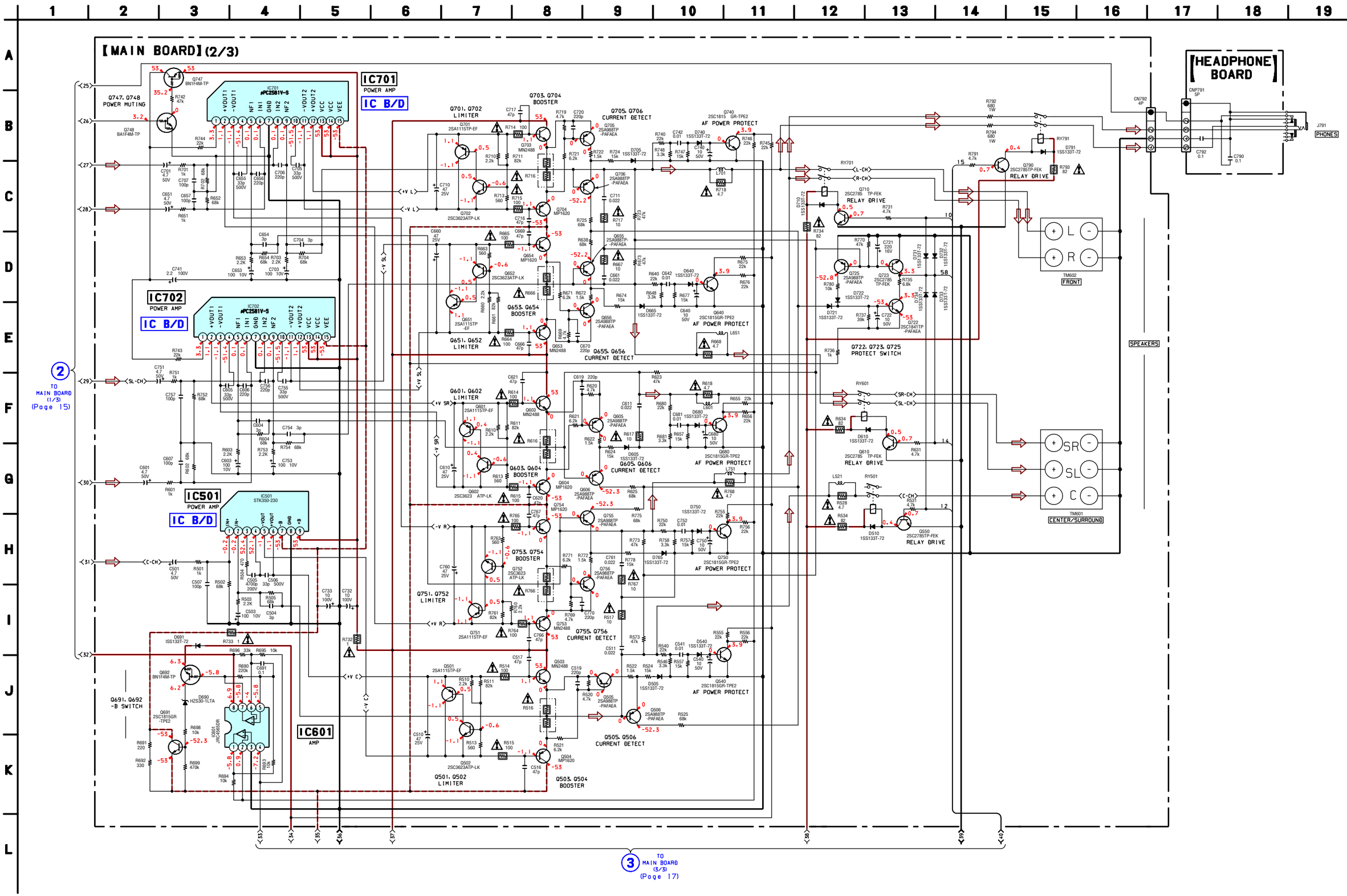
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D505	E-3	D722	D-10	D903	D-12	Q362	C-6	Q550	B-9	Q655	E-6	Q725	D-10
D510	C-9	D731	C-10	D904	D-12	Q363	D-1	Q560	B-7	Q656	E-8	Q740	E-5
D540	E-3	D732	D-11	D905	D-12	Q364	D-2	Q601	E-10	Q680	E-10	Q747	D-4
D560	B-7	D733	C-10			Q365	C-6	Q602	F-11	Q691	D-9	Q748	D-4
D605	E-11	D734	C-10	IC201	C-3	Q366	C-7	Q603	F-10	Q692	C-9	Q750	E-9
D610	C-10	D740	E-5	IC401	D-3	Q379	D-1	Q604	F-11	Q701	E-4	Q751	E-8
D640	E-7	D750	E-9	IC501	E-2	Q471	C-2	Q605	E-11	Q702	F-5	Q752	F-9
D665	E-7	D765	E-9	IC601	D-8	Q501	E-2	Q606	E-11	Q703	F-5	Q753	F-8
D680	E-10	D791	E-13	IC701	D-5	Q502	F-3	Q610	C-10	Q704	F-6	Q754	F-9
D690	D-9	D801	E-13	IC702	D-7	Q503	F-3	Q640	E-7	Q705	E-6	Q755	E-8
D691	C-8	D802	E-13	IC801	B-5	Q504	F-4	Q651	E-6	Q706	E-4	Q756	E-9
D705	E-5	D804	E-12	IC802	C-5	Q505	E-2	Q652	F-7	Q710	C-8	Q790	D-13
D710	B-8	D896	B-5			Q506	E-3	Q653	F-7	Q722	D-11	Q801	E-12
D721	D-10	D902	D-12	Q361	C-5	Q540	E-4	Q654	F-8	Q723	D-11		

3-8. Schematic Diagram – MAIN Section (1/3) – • See page 24 for IC Block Diagrams.

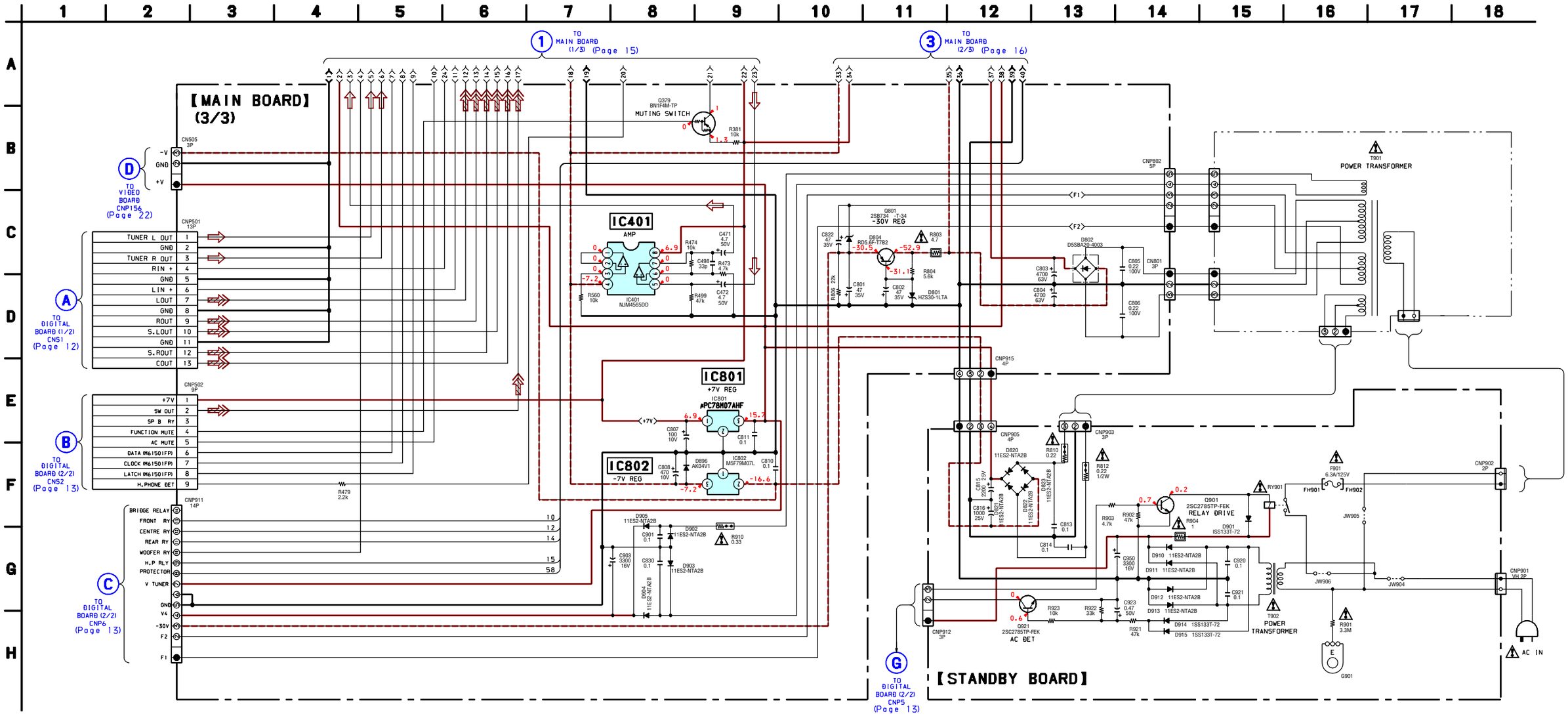


3-9. Schematic Diagram – MAIN Section (2/3) –

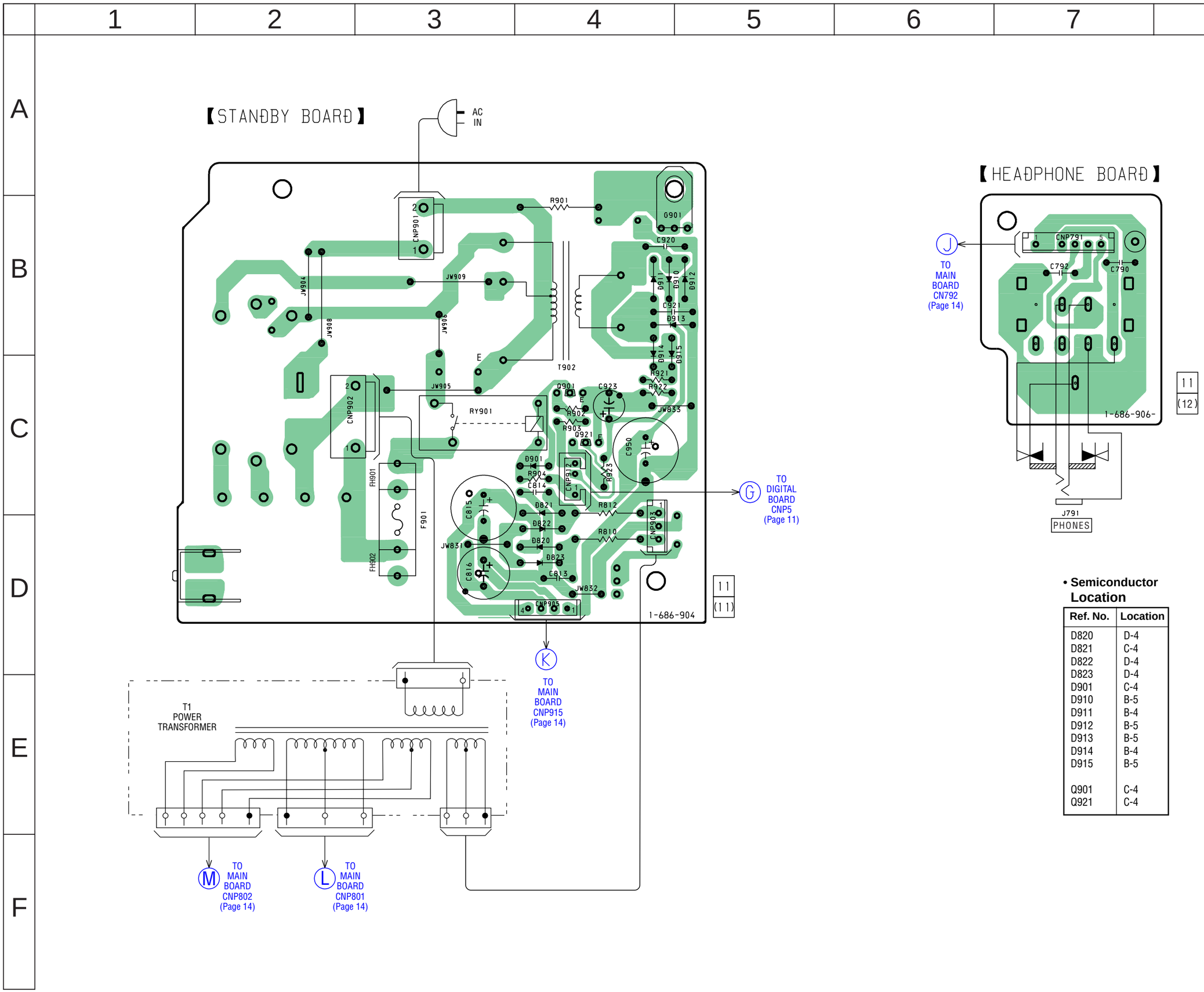
• See page 23 for IC Block Diagrams.



3-10. Schematic Diagram – MAIN Section (3/3) –



3-11. Printed Wiring Board – POWER Section – • See page 7 for Circuit Boards Location. • : Uses unleaded solder.



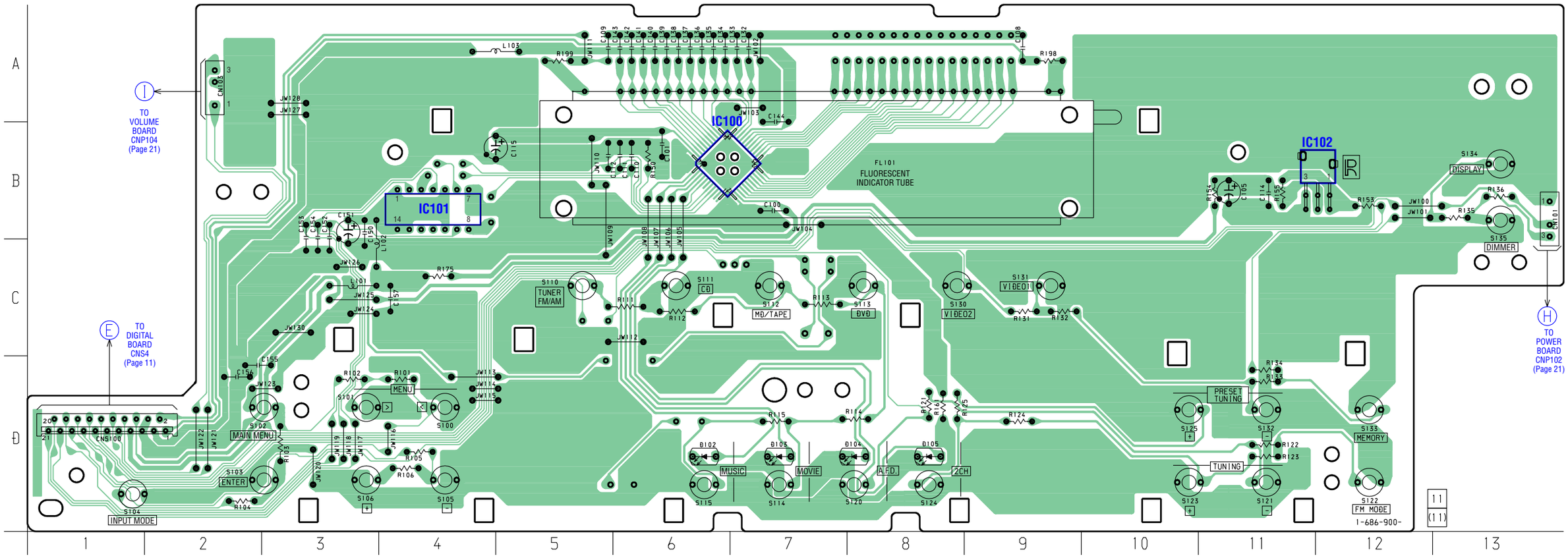
- **Semiconductor Location**

Ref. No.	Location
D820	D-4
D821	C-4
D822	D-4
D823	D-4
D901	C-4
D910	B-5
D911	B-4
D912	B-5
D913	B-5
D914	B-4
D915	B-5
Q901	C-4
Q921	C-4

3-12. Printed Wiring Board – DISPLAY Board –

• See page 7 for Circuit Boards Location. • : Uses unleaded solder.

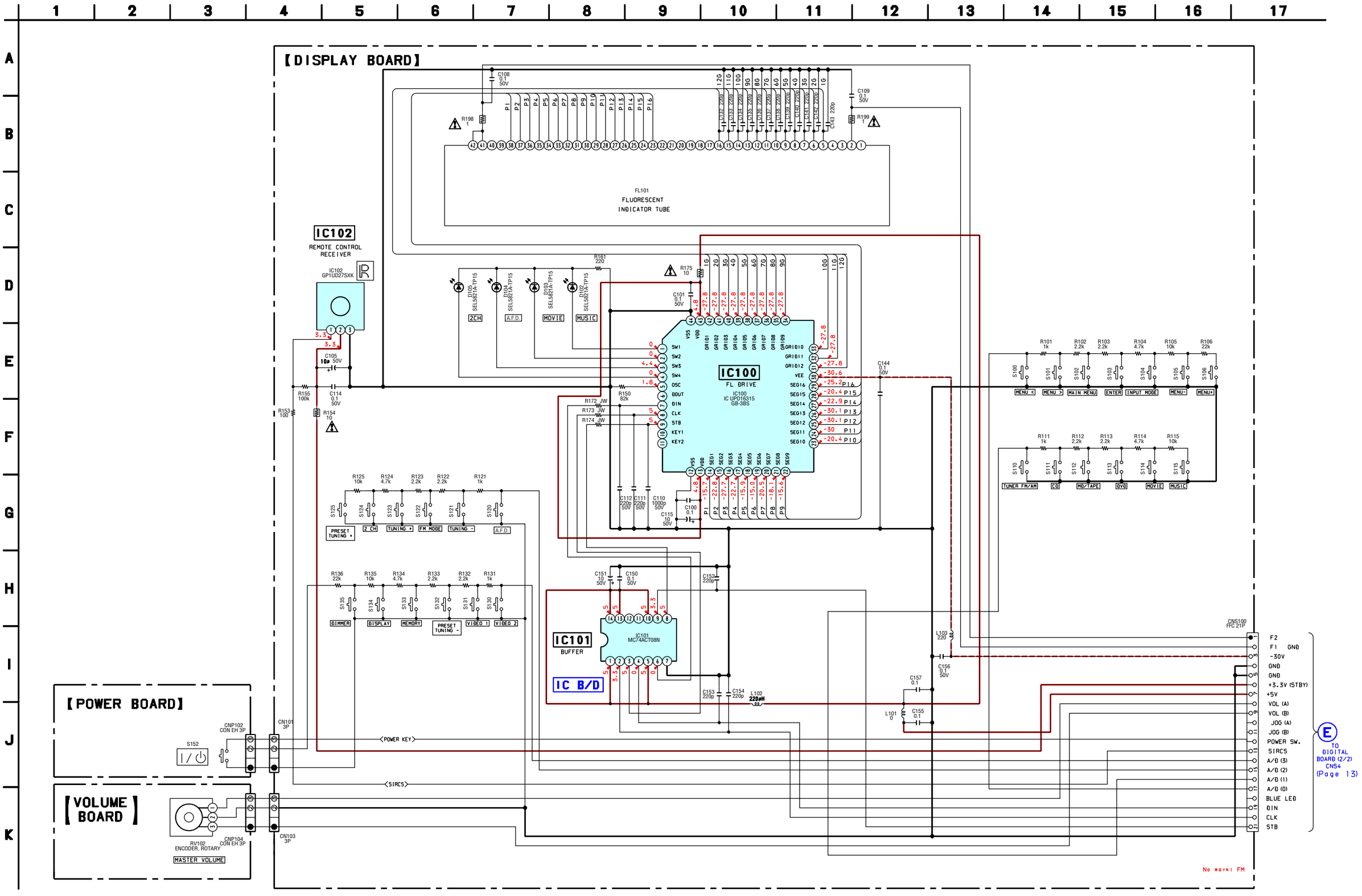
【DISPLAY BOARD】



• **Semiconductor Location**

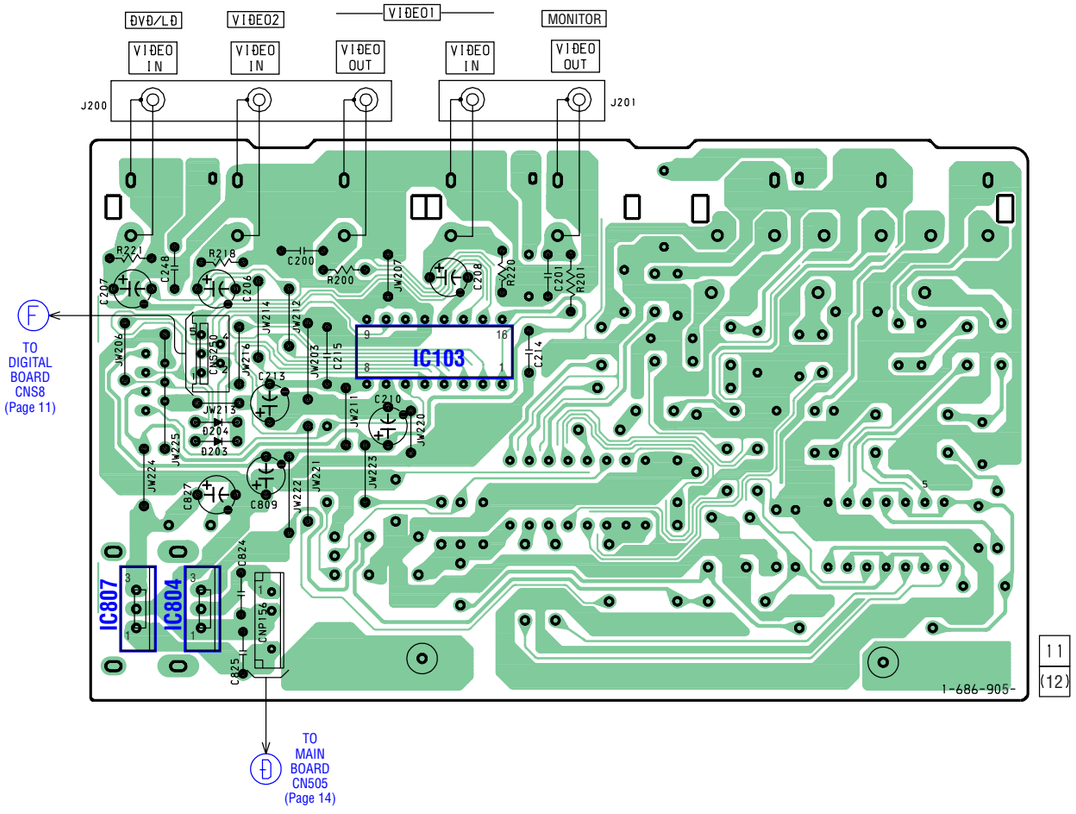
Ref. No.	Location
D102	D-6
D103	D-7
D104	D-8
D105	D-8
IC100	B-6
IC101	B-4
IC102	B-11

3-13. Schematic Diagram – DISPLAY Section – • See page 23 for IC Block Diagrams.

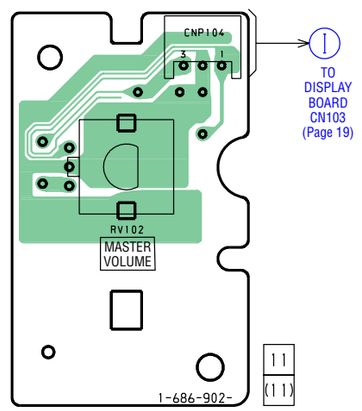


3-14. Printed Wiring Board – VIDEO Section – • See page 7 for Circuit Boards Location. • : Uses unleaded solder.

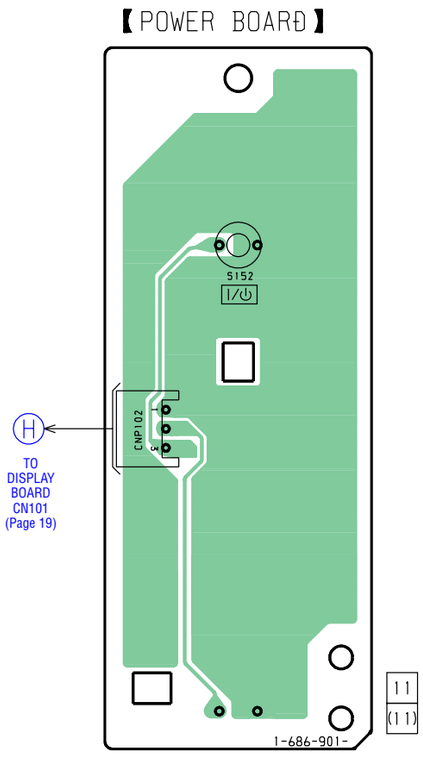
【VIDEO BOARD】



【VOLUME BOARD】



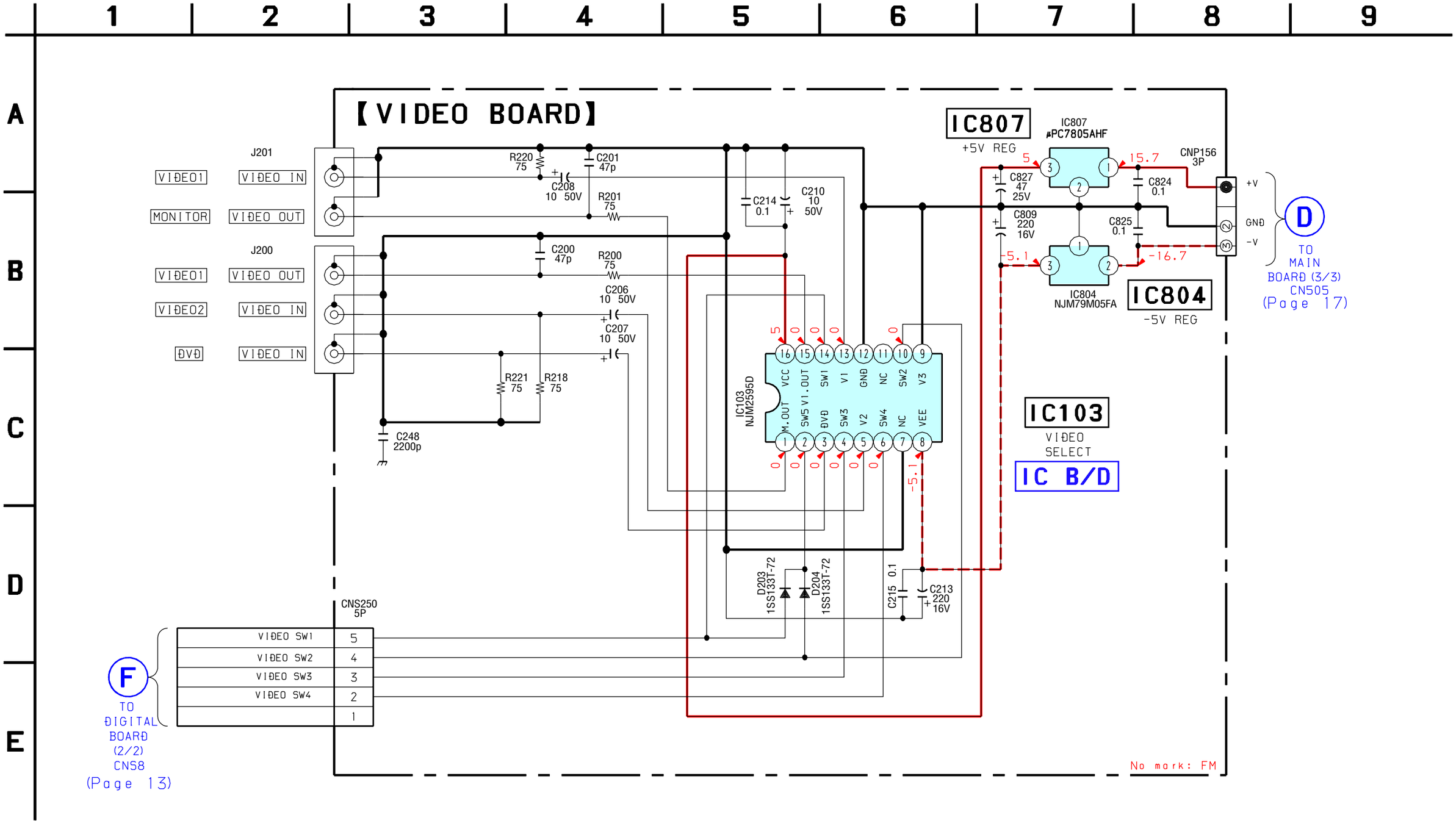
【POWER BOARD】



• **Semiconductor Location**

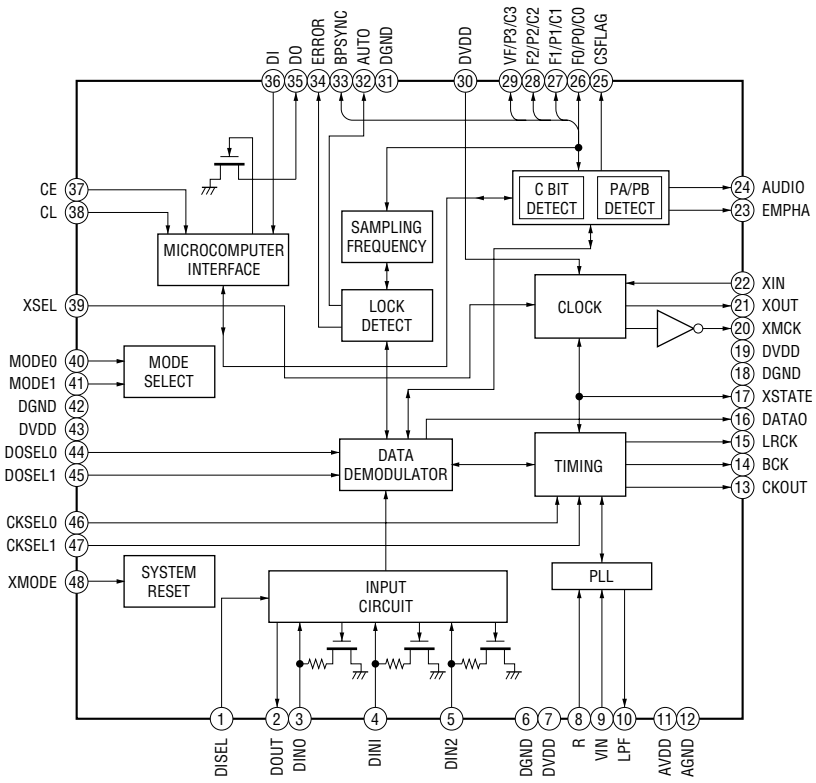
Ref. No.	Location
D203	C-2
D204	C-2
IC103	C-3
IC804	D-2
IC807	D-1

3-15. Schematic Diagram – VIDEO Board – • See page 24 for IC Block Diagrams.

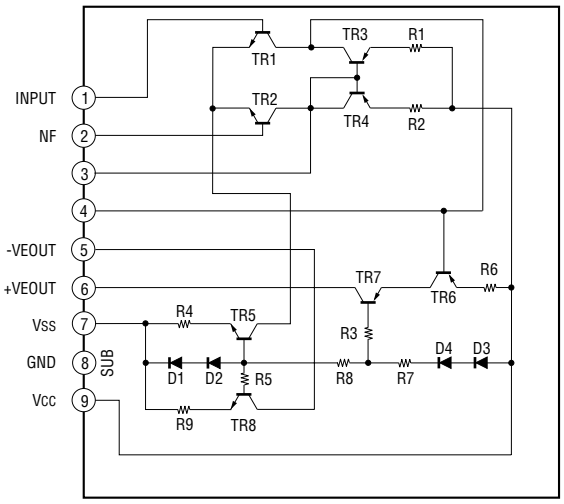


3-16. IC Block Diagrams

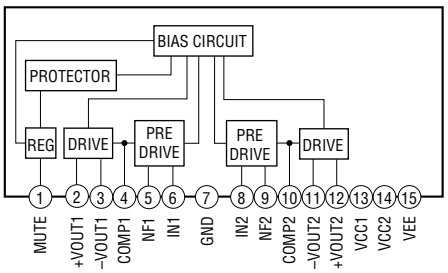
IC1101 LC89056W-E (DIGITAL BOARD)



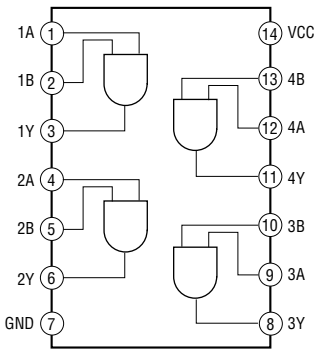
IC501 STK350-230 (MAIN BOARD)



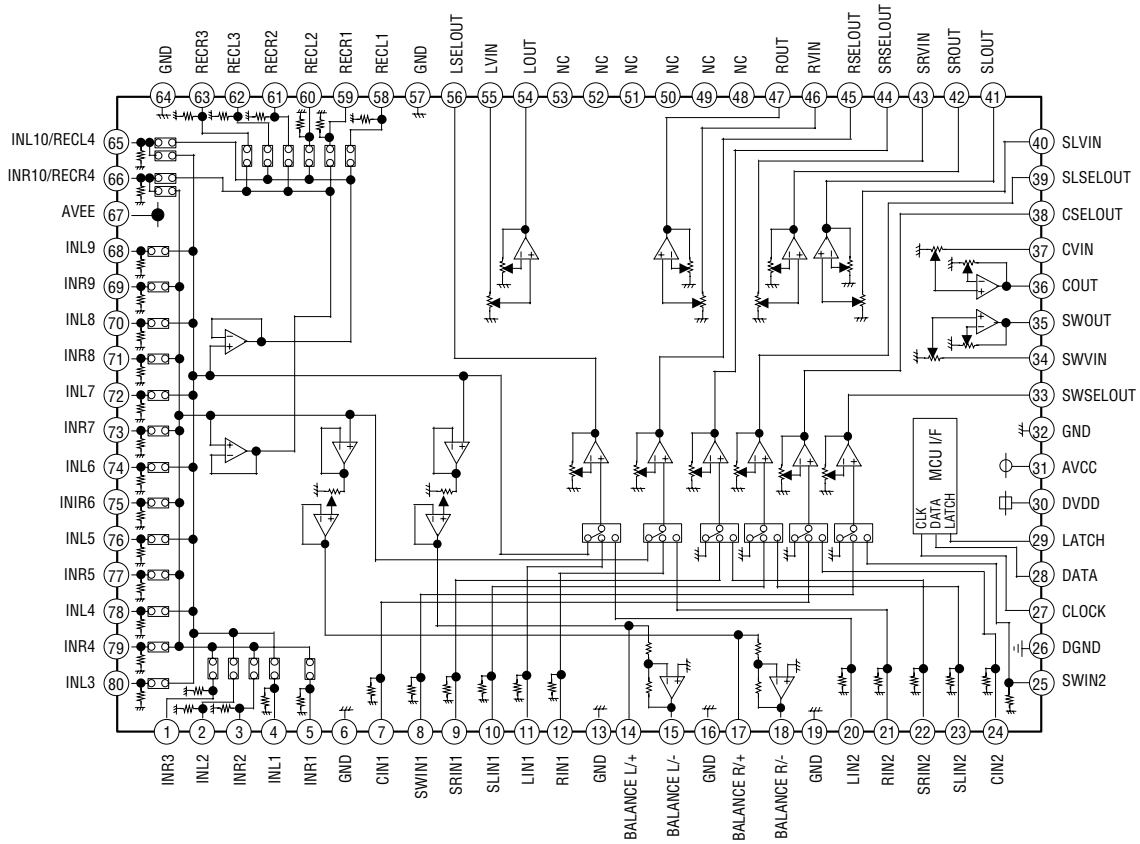
IC701, IC702 µPC2581V-S (MAIN BOARD)



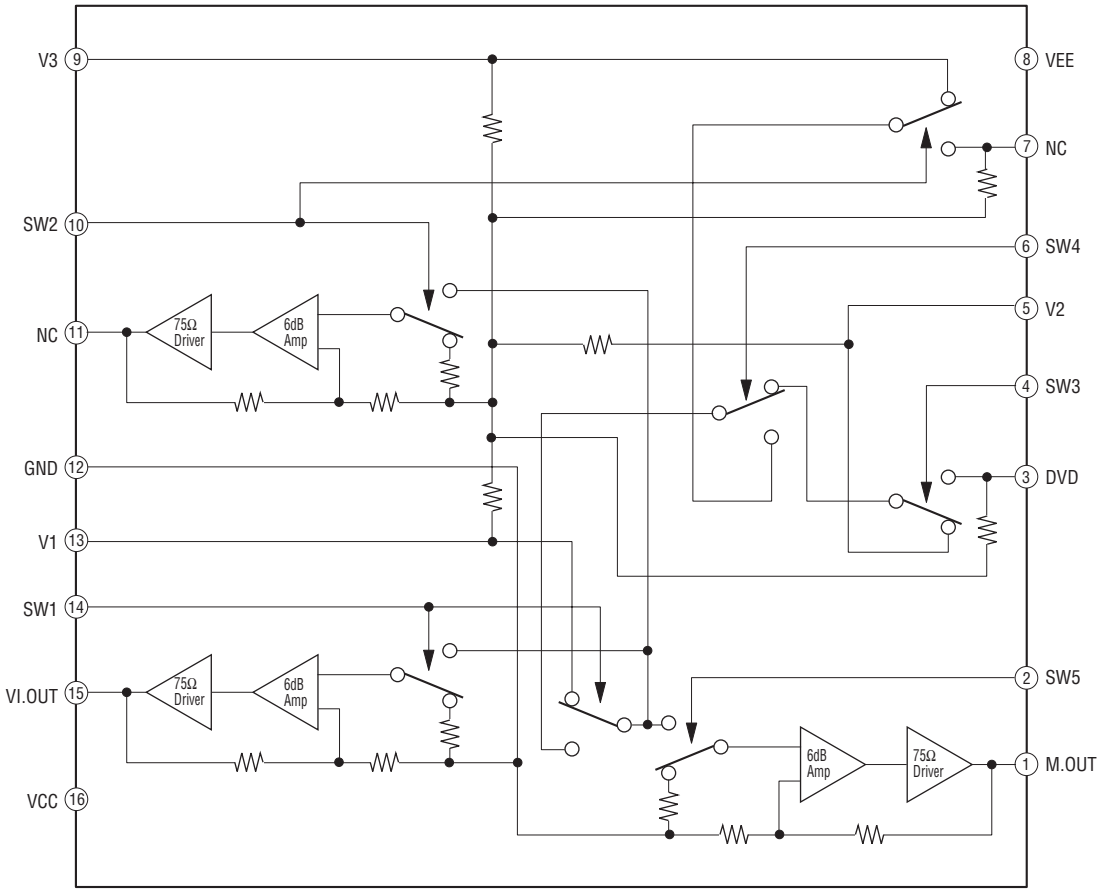
IC101 MC74ACT08N (DISPLAY BOARD)



IC201 M61527FP (MAIN BOARD)



IC103 NJM2595D (VIDEO BOARD)



3-17. IC Pin Function Descriptions

• IC1601 MB9047BPF-G-138-BND (SYSTEM CONTROL)

Pin No.	Pin Name	I/O	Description
1	DATAO	I	Audio data signal input from DIR
2	GP9	I	GP9 signal input from DSP
3	BST	O	BST signal output to DSP
4	HCS	O	HCS signal output to DSP
5	HACN	I	HACN signal input from DSP
6	XRST	O	Reset signal output to DSP
7	PM	O	PM signal output to DSP
8	PD	O	Power down signal output to AUDIO CODEC
9	SMUTE	O	Muting signal output to AUDIO CODEC
10	CDT1	O	Control data signal output to AUDIO CODEC
11	VSS	—	Ground terminal
12	SCL	O	Clock signal output to AUDIO CODEC
13	CS	O	Chip select signal output to AUDIO CODEC
14	DATA	O	Control data signal output to the sound processor
15	CLK	O	Clock signal output to the sound processor
16	LATCH	O	Latch signal output to the sound processor
17	SPK B RELAY	O	Not used
18	HDOUT	I	HDOUT signal input from DSP
19	HDIN	O	HDIN signal output to DSP
20	HCLK	O	Clock signal output to DSP
21	F.MUTE	O	Muting signal output
22	AC MUTE	O	Muting signal output to the power amplifier
23	VCC5	—	Power supply
24	ANA/DIG	O	Muting and error signal output
25	HP DETECT	I	Headphone switch detect signal input
26	NC	—	Not used
27	FLASH2	O	Terminal for FLASH programming
28	FLASH1	I/O	Terminal for FLASH programming
29	NC	—	Not used
30	NC	—	Not used
31	NC	—	Not used
32	NC	—	Not used
33	SCL	O	Serial clock output
34	SDA	I/O	Serial data input or output
35	AVCC	—	Analog power supply
36	AVRH	I	Analog reference voltage input
37	AVSS	—	Analog ground terminal
38	A/D0	I	Function key push signal input
39	A/D1	I	Function key push signal input
40	A/D2	I	Function key push signal input
41	A/D3	I	Function key push signal input
42	VSS	—	Ground terminal
43	RDS SIGNAL	I	RDS signal detect input
44	MODEL	I	Version setting input (MODEL)
45	VERSION	I	Version setting input (DESTINATION)
46	BLUE LED	O	Not used
47	CRYSTAL SEL	—	Short to ground terminal
48	STOP	I	AC off detect signal input
49	MD0	I	Operation mode setting input
50	MD1	I	Operation mode setting input

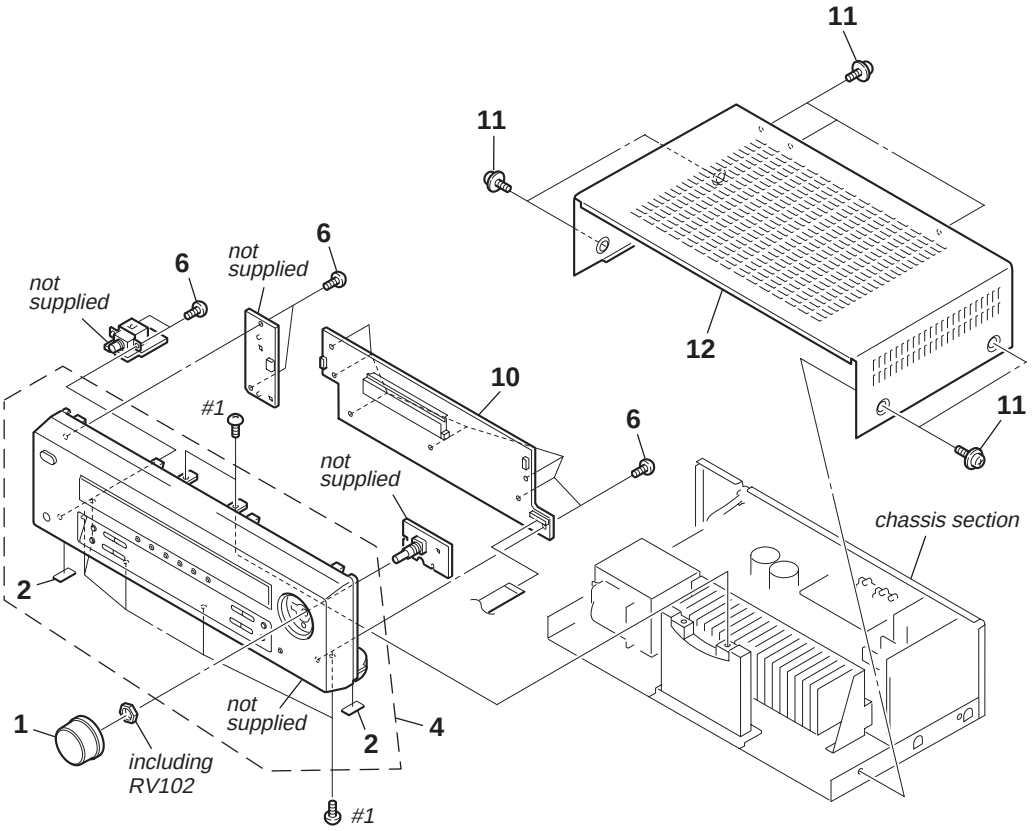
Pin No.	Pin Name	I/O	Description
51	MD2	I	Operation mode setting input
52	RDS CLOCK	I	RDS clock signal input (Not used)
53	RDS DATA	I	RDS data signal input (Not used)
54	SIRCS	I	Data signal input from the remote control sensor
55	FUSE DETECT	I	Fuse detect signal input
56	POWER KEY	I	Power switch key detect signal input
57	JOG (B)	I	Jog dial signal input from the rotary encoder
58	JOG (A)	I	Jog dial signal input from the rotary encoder
59	VOL (B)	I	Jog dial signal input from the rotary encoder
60	VOL (A)	I	Jog dial signal input from the rotary encoder
61	DIN	O	Data signal output to the FL tube driver
62	CLK	O	Clock signal output to the FL tube driver
63	FL STB	O	Strobe signal output to the FL tube driver
64	NC	—	Not used
65	POWER RELAY	O	Power relay control signal output
66	PROTECTOR	I	Protector status detect signal input
67	HEADPHONE RELAY	O	Headphone relay control signal output
68	WOOFER RELAY	O	Woofer relay control signal output
69	REAR RELAY	O	Rear speaker relay control signal output
70	CENTRE RELAY	O	Centre speaker relay control signal output
71	PREOUT/FRONT RELAY	O	Front speaker relay control signal output
72	R1 RELAY	O	Bridgeable relay control
73	TUNED	I	Tuning a frequency signal input from the tuner
74	STEREO	I	Stereo tuning signal input from the tuner
75	MUTE	O	Muting signal output to the tuner
76	DO	I	Frequency data signal input from the tuner
77	RSTX	I	System reset
78	SLATCH	O	Latch signal output to the tuner
79	X1A	—	Not used
80	X0A	—	Not used
81	VSS	—	Ground terminal
82	X0	—	Connection for a crystal resonator
83	X1	—	Connection for a crystal resonator
84	VCC3	—	Power supply
85	REMOTE SEL	—	Short to ground terminal
86	NC	O	Not used
87	SW4	O	Video select control signal output
88	SW3	O	Video select control signal output
89	SW2	O	Video select control signal output
90	SW1	O	Video muting control signal output
91	SELECT1	O	Optical in selector control signal output
92	NC	—	Not used
93	XMODE	O	Reset signal output to DIR
94	CKSEL 1	O	CKSEL control signal to DIR
95	CLK	O	Clock signal output to DIR
96	CE	O	Chip enable signal output to DIR
97	DI	O	Data signal output to DIR
98	DO	I	Data signal input from DIR
99	ERROR	I	PLL error muting signal input from DIR
100	XSTATE	I	XSTATE data signal input from DIR

SECTION 4
EXPLODED VIEWS

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

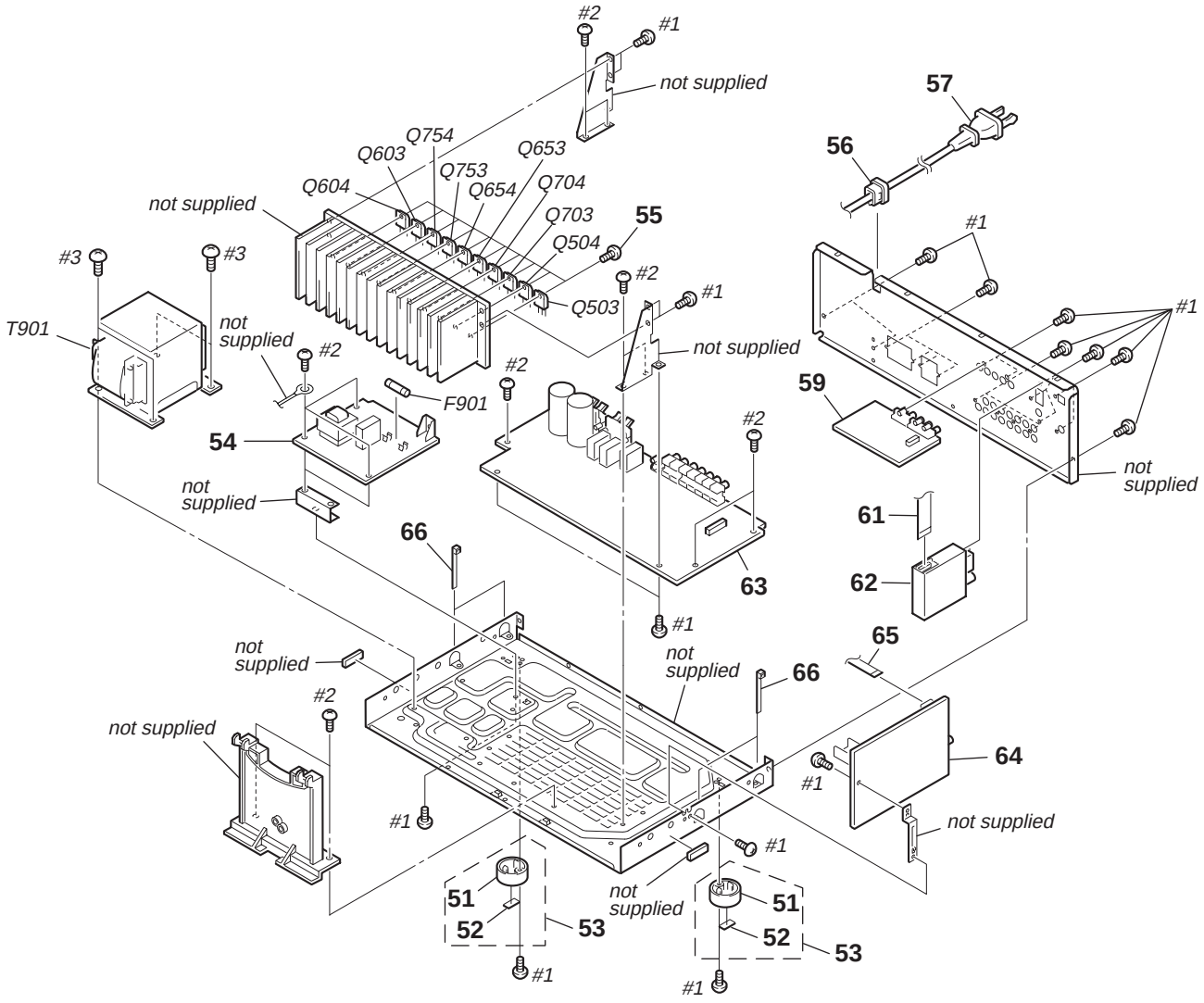
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

4-1. Front Panel Section



Ref. No.	Part No.	Description	Remarks
1	4-232-113-12	KNOB (VOL)	
2	4-977-358-11	CUSHION	
4	X-4955-543-1	FRONT PANEL ASSY	
6	4-951-620-01	SCREW (2.6X8), +BVTP	
10	A-4731-177-A	DISPLAY BOARD,COMPLETE	
11	4-210-291-11	SCREW (CASE 3 TP2)	
12	4-245-939-21	CASE	
13	1-920-818-91	WIRE (FLAT TYPE)(21 CORE)	
#1	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-645-71	SCREW +BVTP 3X6 TYPE2 N-S	

4-2. Chassis Section



Ref. No.	Part No.	Description	Remarks
51	4-232-237-01	FOOT (DIA. 30)	
52	4-977-358-11	CUSHION	
53	X-4953-448-1	FOOT ASSY	
54	1-686-904-11	STANDBY BOARD	
55	3-905-609-01	SCREW (TRANSISTOR)	
* 56	3-703-244-21	BUSHING (2104), CORD	
⚠57	1-783-532-11	CORD, POWER	
59	A-4731-175-A	VIDEO BOARD,COMPLETE	
61	1-769-937-11	WIRE (FLAT TYPE) (11 CORE)	
62	1-693-577-22	TUNER	
63	A-4732-919-A	MAIN BOARD,COMPLETE	
64	A-4732-916-A	DIGITAL BOARD,COMPLETE	
65	1-575-662-31	WIRE (FLAT TYPE) (5 CORE)	
66	3-701-748-02	CLAMP	
⚠F901	1-576-109-11	FUSE 6.3A/125V	

Ref. No.	Part No.	Description	Remarks
Q503	8-749-010-25	IC MN2488-OPY-M	
Q504	8-749-010-26	IC MP1620-OPY-M	
Q603	8-749-010-25	IC MN2488-OPY-M	
Q604	8-749-010-26	IC MP1620-OPY-M	
Q653	8-749-010-25	IC MN2488-OPY-M	
Q654	8-749-010-26	IC MP1620-OPY-M	
Q703	8-749-010-25	IC MN2488-OPY-M	
Q704	8-749-010-26	IC MP1620-OPY-M	
Q753	8-749-010-25	IC MN2488-OPY-M	
Q754	8-749-010-26	IC MP1620-OPY-M	
⚠T901	1-437-995-11	POWER TRANSFORMER	
#1	7-685-646-71	SCREW +BVTP 3X8 TYPE2 IT-3	
#2	7-685-645-71	SCREW +BVTP 3X6 TYPE2 N-S	
#3	7-685-880-01	SCREW +BVTT 4X6 (S)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SECTION 5
ELECTRICAL PARTS LIST

DIGITAL

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- COILS
  uH: µH
- RESISTORS
  All resistors are in ohms.
  METAL: metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- CAPACITORS:
  uF: µF
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA...: µA... , uPA... , µPA... ,
  uPB... , µPB... , uPC... , µPC... ,
  uPD..., µPD...

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
	A-4732-916-A	DIGITAL BOARD, COMPLETE			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C1101	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1102	1-126-947-11	ELECT	47uF	20.00%	16V
C1103	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1104	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1105	1-126-947-11	ELECT	47uF	20.00%	16V
C1106	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1107	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1108	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1109	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V
C1110	1-162-918-11	CERAMIC CHIP	18PF	5.00%	50V
C1111	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1112	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1113	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1114	1-162-905-11	CERAMIC CHIP	1PF	0.25PF	50V
C1115	1-162-923-11	CERAMIC CHIP	47PF	5%	50V
C1116	1-126-916-11	ELECT	1000uF	20.00%	6.3V
C1117	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1118	1-115-416-11	CERAMIC CHIP	0.001uF	5.00%	25V
C1119	1-126-965-91	ELECT	22uF	20.00%	50V
C1121	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1124	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1129	1-115-416-11	CERAMIC CHIP	0.001uF	5.00%	25V
C1130	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1131	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1201	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1202	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1203	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1204	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1205	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1206	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1207	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1208	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1209	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1210	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1211	1-126-935-11	ELECT	470uF	20.00%	10V
C1212	1-126-935-11	ELECT	470uF	20.00%	10V
C1213	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1214	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1216	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1218	1-162-927-11	CERAMIC CHIP	100PF	5%	50V

Ref. No.	Part No.	Description			Remarks
C1219	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1220	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C1227	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1229	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1230	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1231	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1309	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1310	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1311	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1312	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1501	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1502	1-128-131-11	ELECT	22uF	20.00%	50V
C1503	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1504	1-126-964-11	ELECT	10uF	20.00%	50V
C1505	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1506	1-126-935-11	ELECT	470uF	20.00%	16V
C1507	1-126-964-11	ELECT	10uF	20.00%	50V
C1508	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1509	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1510	1-126-947-11	ELECT	47uF	20.00%	16V
C1511	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1512	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C1513	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1514	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1515	1-126-935-11	ELECT	470uF	20.00%	10V
C1516	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C1517	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C1518	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C1519	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C1520	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C1521	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C1551	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C1552	1-128-131-11	ELECT	22uF	20.00%	50V
C1601	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1602	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1603	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1604	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1605	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1606	1-126-947-11	ELECT	47uF	20.00%	16V
C1607	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1610	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1611	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1612	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1613	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C1614	1-162-995-11	CERAMIC CHIP	0.022uF		50V

DIGITAL

Ref. No.	Part No.	Description			Remarks
C1615	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C1616	1-162-995-11	CERAMIC CHIP	0.022uF		50V
C1617	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C1618	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1619	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1620	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1624	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1625	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1626	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1627	1-126-964-11	ELECT	10uF	20.00%	50V
C1632	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1634	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1635	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1671	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1905	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1906	1-126-935-11	ELECT	470uF	20.00%	16V
C1908	1-126-935-11	ELECT	470uF	20.00%	16V
C1909	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1910	1-126-935-11	ELECT	470uF	20.00%	16V
C1911	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1912	1-126-935-11	ELECT	470uF	20.00%	16V
C1913	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C1914	1-126-947-11	ELECT	47uF	20.00%	16V
		< CONNECTOR >			
CNP5	1-779-978-11	PIN, CONNECTOR 3P			
CNP6	1-784-929-11	PIN, CONNECTOR 14P			
		< CONNECTOR >			
CNS1	1-764-865-41	CONNECTOR, BOARD TO BOARD 13P			
CNS2	1-784-041-41	CONNECTOR, BOARD TO BOARD 9P			
CNS3	1-784-923-11	PIN, CONNECTOR 7P			
CNS4	1-569-309-11	SOCKET, CONNECTOR (L TYRE) 21P			
CNS7	1-569-060-11	SOCKET, CONNECTOR 11P			
CNS8	1-569-315-11	SOCKET, CONNECTOR 5P			
		< DIODE >			
D1001	8-719-016-74	DIODE 1SS352-TPH3			
D1101	8-719-016-74	DIODE 1SS352-TPH3			
D1501	8-719-049-09	DIODE 1SS367-T3SONY			
D1502	8-719-049-09	DIODE 1SS367-T3SONY			
D1601	8-719-016-74	DIODE 1SS352-TPH3			
		< FERRITE BEAD >			
FB1101	1-414-813-11	FERRITE	0uH		
FB1102	1-414-813-11	FERRITE	0uH		
FB1104	1-469-152-11	FERRITE	0uH		
FB1105	1-469-152-11	FERRITE	0uH		
FB1201	1-414-813-11	FERRITE	0uH		
FB1202	1-414-813-11	FERRITE	0uH		
FB1203	1-469-152-11	FERRITE	0uH		
FB1204	1-469-152-11	FERRITE	0uH		
FB1501	1-414-813-11	FERRITE	0uH		
FB1502	1-414-813-11	FERRITE	0uH		
FB1601	1-414-813-11	FERRITE	0uH		
FB1602	1-216-864-11	METAL CHIP	0	5%	1/10W
FB1603	1-216-864-11	METAL CHIP	0	5%	1/10W

Ref. No.	Part No.	Description			Remarks
		< IC >			
IC1101	8-759-825-15	IC LC89056W-E			
IC1102	8-759-242-70	IC TC7WU04F(TE12R)			
IC1105	6-600-014-01	IC TORX141L(VIDEO2 IN)			
IC1201	8-759-698-76	IC CXD9617R			
IC1202	8-759-538-16	IC IS61LV6416-10TT(ISSI)			
IC1501	6-703-705-01	IC AK4527B			
IC1502	8-759-710-97	IC NJM4565M(TE2)			
IC1503	8-759-231-53	IC M5F7805L			
IC1552	8-759-710-97	IC NJM4565M(TE2)			
IC1601	6-802-541-01	IC MB9047BPF-G-138-BND			
IC1602	6-702-913-01	IC S-80929CNMC-G8Z-T2			
IC1604	8-759-641-86	IC BR24C16F-E2			
IC1901	6-701-887-02	IC SI-3004KWF			
IC1902	8-759-231-57	IC TA7810S			
IC1903	8-759-390-42	IC uPC24M05AHF			
IC1904	8-759-445-59	IC BA033T			
		< JACK >			
J1101	1-778-228-11	JACK, PIN 1P (DVD IN)			
		< JUMPER RESISTOR >			
JR1115	1-216-864-11	METAL CHIP	0	5%	1/10W
JR1116	1-216-864-11	METAL CHIP	0	5%	1/10W
JR1121	1-216-864-11	METAL CHIP	0	5%	1/10W
JR1122	1-216-864-11	METAL CHIP	0	5%	1/10W
		< COIL >			
L1901	1-216-864-11	METAL CHIP	0	5%	1/10W
		< TRANSISTOR >			
Q1601	8-729-027-43	TRANSISTOR	RT1N141C-TP-1		
Q1602	8-729-230-49	TRANSISTOR	2SC2712-YG-TE85L		
		< RESISTOR >			
R1100	1-216-857-11	METAL CHIP	1M	5%	1/10W
R1101	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1102	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1103	1-216-809-11	METAL CHIP	100	5%	1/10W
R1104	1-216-809-11	METAL CHIP	100	5%	1/10W
R1105	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1106	1-216-839-11	METAL CHIP	33K	5%	1/10W
R1107	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1108	1-216-809-11	METAL CHIP	100	5%	1/10W
R1109	1-216-809-11	METAL CHIP	100	5%	1/10W
R1110	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1111	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1112	1-216-809-11	METAL CHIP	100	5%	1/10W
R1113	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1114	1-216-809-11	METAL CHIP	100	5%	1/10W
R1115	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1116	1-218-285-11	METAL CHIP	75	5%	1/10W
R1117	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1118	1-216-854-11	METAL CHIP	560K	5%	1/10W
R1119	1-216-837-11	METAL CHIP	22K	5%	1/10W

Ref. No.	Part No.	Description			Remarks
R1121	1-216-809-11	METAL CHIP	100	5%	1/10W
R1124	1-216-809-11	METAL CHIP	100	5%	1/10W
R1202	1-216-809-11	METAL CHIP	100	5%	1/10W
R1203	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1204	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1205	1-216-809-11	METAL CHIP	100	5%	1/10W
R1206	1-216-809-11	METAL CHIP	100	5%	1/10W
R1207	1-216-809-11	METAL CHIP	100	5%	1/10W
R1208	1-216-809-11	METAL CHIP	100	5%	1/10W
R1209	1-216-809-11	METAL CHIP	100	5%	1/10W
R1210	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1212	1-216-813-11	METAL CHIP	220	5%	1/10W
R1213	1-216-813-11	METAL CHIP	220	5%	1/10W
R1214	1-216-813-11	METAL CHIP	220	5%	1/10W
R1215	1-216-813-11	METAL CHIP	220	5%	1/10W
R1216	1-216-813-11	METAL CHIP	220	5%	1/10W
R1217	1-216-813-11	METAL CHIP	220	5%	1/10W
R1218	1-216-813-11	METAL CHIP	220	5%	1/10W
R1219	1-216-813-11	METAL CHIP	220	5%	1/10W
R1220	1-216-813-11	METAL CHIP	220	5%	1/10W
R1221	1-216-813-11	METAL CHIP	220	5%	1/10W
R1222	1-216-813-11	METAL CHIP	220	5%	1/10W
R1224	1-216-813-11	METAL CHIP	220	5%	1/10W
R1225	1-216-813-11	METAL CHIP	220	5%	1/10W
R1226	1-216-813-11	METAL CHIP	220	5%	1/10W
R1227	1-216-813-11	METAL CHIP	220	5%	1/10W
R1228	1-216-813-11	METAL CHIP	220	5%	1/10W
R1229	1-216-813-11	METAL CHIP	220	5%	1/10W
R1230	1-216-813-11	METAL CHIP	220	5%	1/10W
R1231	1-216-813-11	METAL CHIP	220	5%	1/10W
R1232	1-216-813-11	METAL CHIP	220	5%	1/10W
R1233	1-216-813-11	METAL CHIP	220	5%	1/10W
R1234	1-216-813-11	METAL CHIP	220	5%	1/10W
R1235	1-216-813-11	METAL CHIP	220	5%	1/10W
R1236	1-216-813-11	METAL CHIP	220	5%	1/10W
R1237	1-216-813-11	METAL CHIP	220	5%	1/10W
R1238	1-216-813-11	METAL CHIP	220	5%	1/10W
R1239	1-216-813-11	METAL CHIP	220	5%	1/10W
R1240	1-216-813-11	METAL CHIP	220	5%	1/10W
R1241	1-216-813-11	METAL CHIP	220	5%	1/10W
R1242	1-216-813-11	METAL CHIP	220	5%	1/10W
R1243	1-216-813-11	METAL CHIP	220	5%	1/10W
R1244	1-216-813-11	METAL CHIP	220	5%	1/10W
R1304	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1305	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1308	1-216-809-11	METAL CHIP	100	5%	1/10W
R1314	1-216-864-11	METAL CHIP	0	5%	1/10W
R1364	1-216-864-11	METAL CHIP	0	5%	1/10W
R1501	1-216-815-11	METAL CHIP	330	5%	1/10W
R1502	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1503	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1504	1-216-815-11	METAL CHIP	330	5%	1/10W
R1505	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1506	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1507	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1508	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1509	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1516	1-216-813-11	METAL CHIP	220	5%	1/10W
R1517	1-216-813-11	METAL CHIP	220	5%	1/10W
R1518	1-216-813-11	METAL CHIP	220	5%	1/10W
R1519	1-216-813-11	METAL CHIP	220	5%	1/10W
R1520	1-216-813-11	METAL CHIP	220	5%	1/10W
R1521	1-216-813-11	METAL CHIP	220	5%	1/10W
R1551	1-216-815-11	METAL CHIP	330	5%	1/10W
R1552	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1553	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1554	1-216-815-11	METAL CHIP	330	5%	1/10W
R1555	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R1556	1-216-837-11	METAL CHIP	22K	5%	1/10W
R1557	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1600	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1601	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1602	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1603	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1604	1-216-809-11	METAL CHIP	100	5%	1/10W
R1605	1-216-809-11	METAL CHIP	100	5%	1/10W
R1606	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1607	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1608	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1609	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1610	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1611	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1612	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1613	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1614	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1615	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1617	1-216-809-11	METAL CHIP	100	5%	1/10W
R1618	1-216-809-11	METAL CHIP	100	5%	1/10W
R1619	1-216-809-11	METAL CHIP	100	5%	1/10W
R1621	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1622	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1624	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1625	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1626	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1627	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1628	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1629	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1630	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1631	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1632	1-216-864-11	METAL CHIP	0	5%	1/10W
R1635	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1636	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1637	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1638	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1639	1-216-809-11	METAL CHIP	100	5%	1/10W
R1640	1-216-809-11	METAL CHIP	100	5%	1/10W
R1641	1-216-809-11	METAL CHIP	100	5%	1/10W
R1642	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1643	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1644	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1645	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1646	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1647	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1648	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1649	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1650	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1651	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1654	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1655	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1656	1-216-841-11	METAL CHIP	47K	5%	1/10W

DIGITAL DISPLAY

Ref. No.	Part No.	Description			Remarks
R1657	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1658	1-216-809-11	METAL CHIP	100	5%	1/10W
R1659	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1660	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1662	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1663	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R1664	1-216-809-11	METAL CHIP	100	5%	1/10W
R1665	1-216-809-11	METAL CHIP	100	5%	1/10W
R1667	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1668	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1669	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1670	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1671	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1672	1-216-841-11	METAL CHIP	47K	5%	1/10W
R1673	1-216-809-11	METAL CHIP	100	5%	1/10W
R1674	1-216-809-11	METAL CHIP	100	5%	1/10W
R1676	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1677	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1678	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1679	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1681	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1682	1-216-845-11	METAL CHIP	100K	5%	1/10W
R1683	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1684	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1685	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1686	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1687	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1688	1-216-864-11	METAL CHIP	0	5%	1/10W
R1689	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1690	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1694	1-216-821-11	METAL CHIP	1K	5%	1/10W
R1698	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1699	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R1703	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1704	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1706	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1707	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1708	1-216-833-11	METAL CHIP	10K	5%	1/10W
R1709	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< VIBRATOR >			
X1101	1-781-465-21	VIBRATOR, CRYSTAL 12.288MHz			
X1201	1-795-297-21	VIBRATOR, CERAMIC 13.59MHz			
X1601	1-781-356-21	VIBRATOR, CERAMIC 16MHz			
**********					
	A-4731-177-A	DISPLAY BOARD, COMPLETE			
		**********			
*	3-386-245-13	HOLDER (FL)			
*	4-921-941-01	CUSHION (FL)			
		< CAPACITOR >			
C100	1-164-159-11	CERAMIC	0.1uF		50V
C101	1-164-159-11	CERAMIC	0.1uF		50V
C105	1-126-795-11	ELECT	10uF	20.00%	50V
C108	1-164-159-11	CERAMIC	0.1uF		50V
C109	1-164-159-11	CERAMIC	0.1uF		50V
C110	1-128-821-11	CERAMIC	1000PF	5%	50V
C111	1-128-813-11	CERAMIC	220PF	5%	50V

Ref. No.	Part No.	Description			Remarks
C112	1-128-813-11	CERAMIC	220PF	5%	50V
C114	1-164-159-11	CERAMIC	0.1uF		50V
C115	1-126-795-11	ELECT	10uF	20.00%	50V
C132	1-128-813-11	CERAMIC	220PF	5%	50V
C133	1-128-813-11	CERAMIC	220PF	5%	50V
C134	1-128-813-11	CERAMIC	220PF	5%	50V
C135	1-128-813-11	CERAMIC	220PF	5%	50V
C136	1-128-813-11	CERAMIC	220PF	5%	50V
C137	1-128-813-11	CERAMIC	220PF	5%	50V
C138	1-128-813-11	CERAMIC	220PF	5%	50V
C139	1-128-813-11	CERAMIC	220PF	5%	50V
C140	1-128-813-11	CERAMIC	220PF	5%	50V
C141	1-128-813-11	CERAMIC	220PF	5%	50V
C142	1-128-813-11	CERAMIC	220PF	5%	50V
C143	1-128-813-11	CERAMIC	220PF	5%	50V
C144	1-164-159-11	CERAMIC	0.1uF		50V
C150	1-164-159-11	CERAMIC	0.1uF		50V
C151	1-126-795-11	ELECT	10uF	20.00%	50V
C152	1-128-813-11	CERAMIC	220PF	5%	50V
C153	1-128-813-11	CERAMIC	220PF	5%	50V
C154	1-128-813-11	CERAMIC	220PF	5%	50V
C155	1-164-159-11	CERAMIC	0.1uF		50V
C156	1-164-159-11	CERAMIC	0.1uF		50V
C157	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR SOCKET >			
CNS100	1-569-324-11	SOCKET, CONNECTOR 21P			
		< DIODE >			
D102	8-719-046-39	DIODE SEL5821A-TP15 (MUSIC)			
D103	8-719-046-39	DIODE SEL5821A-TP15 (MOVIE)			
D104	8-719-046-39	DIODE SEL5821A-TP15 (A. F. D.)			
D105	8-719-046-39	DIODE SEL5821A-TP15 (2CH)			
		< FILTER >			
FL101	1-518-831-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC100	8-759-643-83	IC uPD16315GB-3BS			
IC101	8-759-036-90	IC MC74ACT08N			
IC102	6-600-055-01	IC GP1UD27SXK (R)			
		< COIL >			
L101	1-412-473-21	INDUCTOR	0uH		
L102	1-410-525-11	INDUCTOR	220uH		
L103	1-410-525-11	INDUCTOR	220uH		
		< RESISTOR >			
R101	1-249-417-11	CARBON	1K	5%	1/4W F
R102	1-249-421-11	CARBON	2.2K	5%	1/4W F
R103	1-249-421-11	CARBON	2.2K	5%	1/4W F
R104	1-249-425-11	CARBON	4.7K	5%	1/4W F
R105	1-249-429-11	CARBON	10K	5%	1/4W
R106	1-249-433-11	CARBON	22K	5%	1/4W
R111	1-249-417-11	CARBON	1K	5%	1/4W F
R112	1-249-421-11	CARBON	2.2K	5%	1/4W F
R113	1-249-421-11	CARBON	2.2K	5%	1/4W F
R114	1-249-425-11	CARBON	4.7K	5%	1/4W F

Ref. No.	Part No.	Description			Remarks
R115	1-249-429-11	CARBON	10K	5%	1/4W
R118	1-249-433-11	CARBON	22K	5%	1/4W
R121	1-249-417-11	CARBON	1K	5%	1/4W F
R122	1-249-421-11	CARBON	2.2K	5%	1/4W F
R123	1-249-421-11	CARBON	2.2K	5%	1/4W F
R124	1-249-425-11	CARBON	4.7K	5%	1/4W F
R125	1-249-429-11	CARBON	10K	5%	1/4W
R131	1-249-417-11	CARBON	1K	5%	1/4W F
R132	1-249-421-11	CARBON	2.2K	5%	1/4W F
R133	1-249-421-11	CARBON	2.2K	5%	1/4W F
R134	1-249-425-11	CARBON	4.7K	5%	1/4W F
R135	1-249-429-11	CARBON	10K	5%	1/4W
R136	1-249-433-11	CARBON	22K	5%	1/4W
R150	1-249-440-11	CARBON	82K	5%	1/4W
R153	1-247-807-31	CARBON	100	5%	1/4W
⚠R154	1-249-393-11	CARBON	10	5%	1/4W F
R155	1-249-441-11	CARBON	100K	5%	1/4W
R161	1-249-409-11	CARBON	220	5%	1/4W F
⚠R175	1-249-393-11	CARBON	10	5%	1/4W F
⚠R198	1-249-381-11	CARBON	1	5%	1/4W F
⚠R199	1-249-381-11	CARBON	1	5%	1/4W F
		< SWITCH >			
S100	1-771-410-21	SWITCH, TACTILE (MENU <)			
S101	1-771-410-21	SWITCH, TACTILE (MENU >)			
S102	1-771-410-21	SWITCH, TACTILE (MAIN MENU)			
S103	1-771-410-21	SWITCH, TACTILE (ENTER)			
S104	1-771-410-21	SWITCH, TACTILE (INPUT MODE)			
S105	1-771-410-21	SWITCH, TACTILE (MENU -)			
S106	1-771-410-21	SWITCH, TACTILE (MENU +)			
S110	1-771-410-21	SWITCH, TACTILE (TUNER FM/AM)			
S111	1-771-410-21	SWITCH, TACTILE (CD)			
S112	1-771-410-21	SWITCH, TACTILE (MD/TAPE)			
S113	1-771-410-21	SWITCH, TACTILE (DVD)			
S114	1-771-410-21	SWITCH, TACTILE (MOVIE)			
S115	1-771-410-21	SWITCH, TACTILE (MUSIC)			
S120	1-771-410-21	SWITCH, TACTILE (A. F. D.)			
S121	1-771-410-21	SWITCH, TACTILE (TUNING -)			
S122	1-771-410-21	SWITCH, TACTILE (FM MODE)			
S123	1-771-410-21	SWITCH, TACTILE (TUNING +)			
S124	1-771-410-21	SWITCH, TACTILE (2CH)			
S125	1-771-410-21	SWITCH, TACTILE (PRESET TUNING +)			
S130	1-771-410-21	SWITCH, TACTILE (VIDEO 2)			
S131	1-771-410-21	SWITCH, TACTILE (VIDEO 1)			
S132	1-771-410-21	SWITCH, TACTILE (PRESET TUNING -)			
S133	1-771-410-21	SWITCH, TACTILE (MEMORY)			
S134	1-771-410-21	SWITCH, TACTILE (DISPLAY)			
S135	1-771-410-21	SWITCH, TACTILE (DIMMER)			
**********					
		HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C790	1-164-159-11	CERAMIC	0.1uF		50V
C792	1-164-159-11	CERAMIC	0.1uF		50V
		< CONNECTOR >			
CNP791	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			

Ref. No.	Part No.	Description			Remarks
		< JACK >			
J791	1-815-314-21	JACK (PHONES)			
**********					
	A-4732-919-A	MAIN BOARD, COMPLETE			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 IT-3			
		< CAPACITOR >			
C371	1-127-880-11	CERAMIC	0.022uF	10%	50V
C372	1-127-880-11	CERAMIC	0.022uF	10%	50V
C373	1-127-880-11	CERAMIC	0.022uF	10%	50V
C374	1-164-159-11	CERAMIC	0.1uF		50V
C375	1-127-880-11	CERAMIC	0.022uF	10%	50V
C376	1-127-880-11	CERAMIC	0.022uF	10%	50V
C400	1-164-159-21	CERAMIC	0.1uF		50V
C402	1-126-961-11	ELECT	2.2uF	20.00%	50V
C404	1-126-961-11	ELECT	2.2uF	20.00%	50V
C405	1-126-961-11	ELECT	2.2uF	20.00%	50V
C406	1-126-961-11	ELECT	2.2uF	20.00%	50V
C407	1-126-961-11	ELECT	2.2uF	20.00%	50V
C408	1-126-961-11	ELECT	2.2uF	20.00%	50V
C409	1-126-963-11	ELECT	4.7uF	20.00%	50V
C413	1-124-257-00	ELECT	2.2uF	20%	50V
C414	1-124-257-00	ELECT	2.2uF	20%	50V
C415	1-124-257-00	ELECT	2.2uF	20%	50V
C416	1-126-961-11	ELECT	2.2uF	20.00%	50V
C417	1-124-257-00	ELECT	2.2uF	20%	50V
C418	1-126-961-11	ELECT	2.2uF	20.00%	50V
C419	1-124-257-00	ELECT	2.2uF	20%	50V
C433	1-126-961-11	ELECT	2.2uF	20.00%	50V
C452	1-126-961-11	ELECT	2.2uF	20.00%	50V
C454	1-126-961-11	ELECT	2.2uF	20.00%	50V
C455	1-126-961-11	ELECT	2.2uF	20.00%	50V
C456	1-126-961-11	ELECT	2.2uF	20.00%	50V
C457	1-126-961-11	ELECT	2.2uF	20.00%	50V
C458	1-126-961-11	ELECT	2.2uF	20.00%	50V
C459	1-126-963-11	ELECT	4.7uF	20.00%	50V
C464	1-164-159-11	CERAMIC	0.1uF		50V
C465	1-126-934-11	ELECT	220uF	20.00%	16V
C466	1-126-934-11	ELECT	220uF	20.00%	16V
C467	1-164-159-11	CERAMIC	0.1uF		50V
C471	1-126-963-11	ELECT	4.7uF	20.00%	50V
C472	1-126-963-11	ELECT	4.7uF	20.00%	50V
C481	1-126-963-11	ELECT	4.7uF	20.00%	50V
C482	1-126-963-11	ELECT	4.7uF	20.00%	50V
C483	1-126-963-11	ELECT	4.7uF	20.00%	50V
C484	1-126-963-11	ELECT	4.7uF	20.00%	50V
C485	1-126-963-11	ELECT	4.7uF	20.00%	50V
C486	1-126-963-11	ELECT	4.7uF	20.00%	50V
C487	1-126-964-11	ELECT	10uF	20.00%	50V
C488	1-164-159-11	CERAMIC	0.1uF		50V
C489	1-128-809-11	CERAMIC	100PF	5%	50V
C490	1-128-809-11	CERAMIC	100PF	5%	50V
C491	1-126-963-11	ELECT	4.7uF	20.00%	50V
C492	1-126-963-11	ELECT	4.7uF	20.00%	50V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

MAIN

Ref. No.	Part No.	Description			Remarks
C493	1-126-963-11	ELECT	4.7uF	20.00%	50V
C494	1-126-963-11	ELECT	4.7uF	20.00%	50V
C495	1-126-963-11	ELECT	4.7uF	20.00%	50V
C496	1-126-963-11	ELECT	4.7uF	20.00%	50V
C497	1-128-809-11	CERAMIC	100PF	5%	50V
C498	1-128-803-11	CERAMIC	33PF	5%	50V
C500	1-128-825-11	CERAMIC	2200PF	5%	50V
C501	1-126-963-11	ELECT	4.7uF	20.00%	50V
C503	1-104-665-11	ELECT	100uF	20.00%	10V
C504	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C505	1-106-359-00	MYLAR	4700PF	5%	200V
C506	1-102-233-00	CERAMIC	33PF	10.00%	500V
C507	1-128-809-11	CERAMIC	100PF	5%	50V
C510	1-126-947-11	ELECT	47uF	20.00%	25V
C511	1-136-157-00	FILM	0.022uF	5.00%	50V
C516	1-162-815-11	CERAMIC	47PF	5.00%	500V
C517	1-162-815-11	CERAMIC	47PF	5.00%	500V
C519	1-128-813-11	CERAMIC	220PF	5%	50V
C540	1-126-964-11	ELECT	10uF	20.00%	50V
C541	1-127-876-11	CERAMIC	0.01uF	10%	50V
C601	1-126-963-11	ELECT	4.7uF	20.00%	50V
C603	1-104-665-11	ELECT	100uF	20.00%	10V
C604	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C605	1-102-233-00	CERAMIC	33PF	10.00%	500V
C606	1-128-813-11	CERAMIC	220PF	5%	50V
C607	1-128-809-11	CERAMIC	100PF	5%	50V
C610	1-126-947-11	ELECT	47uF	20.00%	25V
C611	1-136-157-00	FILM	0.022uF	5.00%	50V
C619	1-128-813-11	CERAMIC	220PF	5%	50V
C620	1-162-815-11	CERAMIC	47PF	5.00%	500V
C621	1-162-815-11	CERAMIC	47PF	5.00%	500V
C640	1-126-964-11	ELECT	10uF	20.00%	50V
C642	1-127-876-11	CERAMIC	0.01uF	10%	50V
C651	1-126-963-11	ELECT	4.7uF	20.00%	50V
C653	1-104-665-11	ELECT	100uF	20.00%	10V
C654	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C655	1-102-233-00	CERAMIC	33PF	10.00%	500V
C656	1-128-813-11	CERAMIC	220PF	5%	50V
C657	1-128-809-11	CERAMIC	100PF	5%	50V
C660	1-126-947-11	ELECT	47uF	20.00%	25V
C661	1-136-157-00	FILM	0.022uF	5.00%	50V
C666	1-162-815-11	CERAMIC	47PF	5.00%	500V
C669	1-162-815-11	CERAMIC	47PF	5.00%	500V
C670	1-128-813-11	CERAMIC	220PF	5%	50V
C680	1-126-964-11	ELECT	10uF	20.00%	50V
C681	1-127-876-11	CERAMIC	0.01uF	10%	50V
C691	1-164-159-11	CERAMIC	0.1uF		50V
C700	1-128-825-11	CERAMIC	2200PF	5%	50V
C701	1-126-963-11	ELECT	4.7uF	20.00%	50V
C703	1-104-665-11	ELECT	100uF	20.00%	10V
C704	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C705	1-102-233-00	CERAMIC	33PF	10.00%	500V
C706	1-128-813-11	CERAMIC	220PF	5%	50V
C707	1-128-809-11	CERAMIC	100PF	5%	50V
C710	1-126-947-11	ELECT	47uF	20.00%	25V
C711	1-136-157-00	FILM	0.022uF	5.00%	50V
C716	1-162-815-11	CERAMIC	47PF	5.00%	500V
C717	1-162-815-11	CERAMIC	47PF	5.00%	500V
C720	1-128-813-11	CERAMIC	220PF	5%	50V
C721	1-126-934-11	ELECT	220uF	20.00%	16V
C722	1-126-964-11	ELECT	10uF	20.00%	50V
C732	1-128-582-11	ELECT	10uF	20.00%	100V
C733	1-128-582-11	ELECT	10uF	20.00%	100V
C740	1-126-964-11	ELECT	10uF	20.00%	50V
C741	1-128-579-11	ELECT	2.2uF	20.00%	100V
C742	1-127-876-11	CERAMIC	0.01uF	10%	50V
C750	1-126-964-11	ELECT	10uF	20.00%	50V
C751	1-126-963-11	ELECT	4.7uF	20.00%	50V
C752	1-127-876-11	CERAMIC	0.01uF	10%	50V
C753	1-104-665-11	ELECT	100uF	20.00%	10V
C754	1-107-583-11	CERAMIC	3PF	0.25PF	500V
C755	1-102-233-00	CERAMIC	33PF	10.00%	500V
C756	1-128-813-11	CERAMIC	220PF	5%	50V
C757	1-128-809-11	CERAMIC	100PF	5%	50V
C760	1-126-947-11	ELECT	47uF	20.00%	25V
C761	1-136-157-00	FILM	0.022uF	5.00%	50V
C766	1-162-815-11	CERAMIC	47PF	5.00%	500V
C767	1-162-815-11	CERAMIC	47PF	5.00%	500V
C770	1-128-813-11	CERAMIC	220PF	5%	50V
C801	1-126-947-11	ELECT	47uF	20.00%	35V
C802	1-126-947-11	ELECT	47uF	20.00%	35V
C803	1-165-498-11	ELECT	4700uF	20%	63V
C804	1-165-498-11	ELECT	4700uF	20%	63V
C805	1-135-851-21	MYLAR	0.22uF		100V
C806	1-135-851-21	MYLAR	0.22uF		100V
C807	1-104-665-11	ELECT	100uF	20.00%	10V
C808	1-126-935-11	ELECT	470uF	20.00%	10V
C810	1-164-159-11	CERAMIC	0.1uF		50V
C811	1-164-159-11	CERAMIC	0.1uF		50V
C822	1-126-947-11	ELECT	47uF	20.00%	35V
C830	1-164-159-11	CERAMIC	0.1uF		50V
C901	1-164-159-11	CERAMIC	0.1uF		50V
C903	1-126-936-11	ELECT	3300uF	20.00%	16V

< CONNECTOR >

Ref. No.	Part No.	Description
CNP501	1-573-845-11	CONNECTOR, BOARD TO BOARD 13P
CNP502	1-784-038-21	CONNECTOR, BOARD TO BOARD 9P
CNP802	1-691-767-11	PLUG (MICRO CONNECTOR) 5P
CNP911	1-784-929-11	PIN, CONNECTOR 14P
CNP915	1-770-480-11	SOCKET, CONNECTOR PIN 4P
* CNP916	1-564-104-00	PIN, CONNECTOR(3.96mm PITCH)3P

< DIODE >

Ref. No.	Part No.	Description
D505	8-719-911-19	DIODE 1SS133T-72
D510	8-719-911-19	DIODE 1SS133T-72
D540	8-719-911-19	DIODE 1SS133T-72
D560	8-719-911-19	DIODE 1SS133T-72
D605	8-719-911-19	DIODE 1SS133T-72
D610	8-719-911-19	DIODE 1SS133T-72
D640	8-719-911-19	DIODE 1SS133T-72
D665	8-719-911-19	DIODE 1SS133T-72
D680	8-719-911-19	DIODE 1SS133T-72
D690	8-719-934-21	DIODE HZS30-1LTA
D691	8-719-911-19	DIODE 1SS133T-72
D705	8-719-911-19	DIODE 1SS133T-72
D710	8-719-911-19	DIODE 1SS133T-72
D721	8-719-911-19	DIODE 1SS133T-72
D722	8-719-911-19	DIODE 1SS133T-72
D731	8-719-911-19	DIODE 1SS133T-72
D732	8-719-911-19	DIODE 1SS133T-72

Ref. No.	Part No.	Description	Remarks
D733	8-719-911-19	DIODE 1SS133T-72	
D734	8-719-911-19	DIODE 1SS133T-72	
D740	8-719-911-19	DIODE 1SS133T-72	
D750	8-719-911-19	DIODE 1SS133T-72	
D765	8-719-911-19	DIODE 1SS133T-72	
D791	8-719-911-19	DIODE 1SS133T-72	
D801	8-719-934-21	DIODE HZS30-1LTA	
D802	8-719-072-05	DIODE D5SBA20-4003	
D804	8-719-118-63	DIODE RD5.6F-T7B2	
D896	8-719-043-76	DIODE AK04V1	
D902	8-719-024-99	DIODE 11ES2-NTA2B	
D903	8-719-024-99	DIODE 11ES2-NTA2B	
D904	8-719-024-99	DIODE 11ES2-NTA2B	
D905	8-719-024-99	DIODE 11ES2-NTA2B	
		< IC >	
IC201	6-703-501-01	IC M61527FP	
IC401	8-759-636-74	IC NJM4565DD	
IC501	8-749-011-16	IC STK350-230	
IC601	8-759-636-74	IC NJM4565DD	
IC701	6-700-943-01	IC uPC2581V-S	
IC702	6-700-943-01	IC uPC2581V-S	
IC801	8-759-649-68	IC uPC78M07AHF	
IC802	8-759-604-95	IC M5F79M07L	
		< JACK >	
J402	1-794-981-11	JACK, PIN 4P (MD/TAPE,CD)	
J403	1-794-981-11	JACK, PIN 4P (DVD,MD/TAPE)	
J404	1-774-411-11	JACK, PIN 6P (VIDEO1,VIDEO2)	
J405	1-770-377-21	JACK, PIN 1P (SUB WOOFER)	
		< COIL >	
L521	1-422-009-13	COIL, AIR-CORE	
L601	1-422-009-13	COIL, AIR-CORE	
L651	1-422-009-13	COIL, AIR-CORE	
L701	1-422-009-13	COIL, AIR-CORE	
L751	1-422-009-13	COIL, AIR-CORE	
		< TRANSISTOR >	
Q361	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q362	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q363	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q364	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q365	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q366	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q379	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q471	8-729-823-22	TRANSISTOR 2SC3576-AC	
Q501	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q502	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q505	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q506	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q540	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q550	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q560	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q601	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q602	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	

Ref. No.	Part No.	Description	Remarks
Q605	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q606	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q610	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q640	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q651	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q652	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q655	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q656	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q680	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q691	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q692	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q701	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q702	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q705	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q706	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q710	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q722	8-729-140-84	TRANSISTOR 2SC1841TP-PAFAEA	
Q723	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q725	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q740	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q747	8-729-900-63	TRANSISTOR BN1F4M-TP	
Q748	8-729-900-36	TRANSISTOR BA1F4M-TP	
Q750	8-729-281-53	TRANSISTOR 2SC1815GR-TPE2	
Q751	8-729-119-76	TRANSISTOR 2SA1115TP-EF	
Q752	8-729-141-30	TRANSISTOR 2SC3623ATP-LK	
Q755	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q756	8-729-140-82	TRANSISTOR 2SA988TP-PAFAEA	
Q790	8-729-119-79	TRANSISTOR 2SC2785TP-FEK	
Q801	8-729-140-97	TRANSISTOR 2SB734-T-34	
		< RESISTOR >	
R360	1-249-441-11	CARBON 100K 5% 1/4W	
R361	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R362	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R363	1-249-441-11	CARBON 100K 5% 1/4W	
R366	1-249-429-11	CARBON 10K 5% 1/4W	
R367	1-249-441-11	CARBON 100K 5% 1/4W	
R368	1-249-437-11	CARBON 47K 5% 1/4W	
R369	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R370	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R371	1-249-441-11	CARBON 100K 5% 1/4W	
R372	1-249-441-11	CARBON 100K 5% 1/4W	
R373	1-249-417-11	CARBON 1K 5% 1/4W	F
R374	1-249-417-11	CARBON 1K 5% 1/4W	F
R375	1-249-417-11	CARBON 1K 5% 1/4W	F
R376	1-249-417-11	CARBON 1K 5% 1/4W	F
R377	1-249-417-11	CARBON 1K 5% 1/4W	F
R378	1-249-417-11	CARBON 1K 5% 1/4W	F
R379	1-249-425-11	CARBON 4.7K 5% 1/4W	F
R380	1-249-441-11	CARBON 100K 5% 1/4W	
R381	1-249-429-11	CARBON 10K 5% 1/4W	
R402	1-249-417-11	CARBON 1K 5% 1/4W	F
R404	1-249-417-11	CARBON 1K 5% 1/4W	F
R405	1-249-417-11	CARBON 1K 5% 1/4W	F
R406	1-249-417-11	CARBON 1K 5% 1/4W	F
R407	1-249-417-11	CARBON 1K 5% 1/4W	F

MAIN

Ref. No.	Part No.	Description			Remarks
R408	1-249-417-11	CARBON	1K	5%	1/4W F
R409	1-249-417-11	CARBON	1K	5%	1/4W F
R410	1-249-437-11	CARBON	47K	5%	1/4W
R430	1-249-437-11	CARBON	47K	5%	1/4W
R452	1-249-417-11	CARBON	1K	5%	1/4W F
R454	1-249-417-11	CARBON	1K	5%	1/4W F
R455	1-249-417-11	CARBON	1K	5%	1/4W F
R456	1-249-417-11	CARBON	1K	5%	1/4W F
R457	1-249-417-11	CARBON	1K	5%	1/4W F
R458	1-249-417-11	CARBON	1K	5%	1/4W F
R459	1-249-417-11	CARBON	1K	5%	1/4W F
R469	1-249-417-11	CARBON	1K	5%	1/4W F
R470	1-249-437-11	CARBON	47K	5%	1/4W
R471	1-249-417-11	CARBON	1K	5%	1/4W F
R472	1-249-417-11	CARBON	1K	5%	1/4W F
R473	1-249-425-11	CARBON	4.7K	5%	1/4W F
R474	1-249-429-11	CARBON	10K	5%	1/4W
R475	1-249-421-11	CARBON	2.2K	5%	1/4W F
R476	1-247-807-11	RES-CHIP	100	5%	1/4W
R477	1-247-807-11	RES-CHIP	100	5%	1/4W
R478	1-247-807-11	RES-CHIP	100	5%	1/4W
R479	1-249-421-11	RES-CHIP	2.2K	5%	1/4W
R499	1-249-437-11	CARBON	47K	5%	1/4W
R501	1-249-417-11	CARBON	1K	5%	1/4W F
R502	1-249-439-11	CARBON	68K	5%	1/4W
R503	1-249-421-11	CARBON	2.2K	5%	1/4W F
R504	1-249-413-11	CARBON	470	5%	1/4W F
R505	1-249-439-11	CARBON	68K	5%	1/4W
R510	1-249-421-11	CARBON	2.2K	5%	1/4W F
R511	1-249-440-11	CARBON	82K	5%	1/4W
R513	1-249-414-11	CARBON	560	5%	1/4W F
⚠R514	1-249-405-11	CARBON	100	5%	1/4W F
⚠R515	1-249-405-11	CARBON	100	5%	1/4W F
⚠R516	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R517	1-249-393-11	CARBON	10	5%	1/4W F
R520	1-249-425-11	CARBON	4.7K	5%	1/4W F
R521	1-247-850-11	CARBON	6.2K	5%	1/4W
R522	1-249-419-11	CARBON	1.5K	5%	1/4W F
R524	1-249-431-11	CARBON	15K	5%	1/4W
R525	1-249-439-11	CARBON	68K	5%	1/4W
⚠R528	1-249-389-11	CARBON	4.7	5%	1/4W F
R531	1-249-425-11	CARBON	4.7K	5%	1/4W F
R532	1-249-425-11	CARBON	4.7K	5%	1/4W F
R533	1-249-437-11	CARBON	47K	5%	1/4W
⚠R534	1-249-404-00	CARBON	82	5%	1/4W F
R540	1-249-433-11	CARBON	22K	5%	1/4W
R546	1-247-843-11	CARBON	3.3K	5%	1/4W
R555	1-249-433-11	CARBON	22K	5%	1/4W
R556	1-249-433-11	CARBON	22K	5%	1/4W
R557	1-249-431-11	CARBON	15K	5%	1/4W
R560	1-249-429-11	CARBON	10K	5%	1/4W
R573	1-249-437-11	CARBON	47K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-439-11	CARBON	68K	5%	1/4W
R603	1-249-421-11	CARBON	2.2K	5%	1/4W F
R604	1-249-439-11	CARBON	68K	5%	1/4W
R610	1-249-421-11	CARBON	2.2K	5%	1/4W F
R611	1-249-440-11	CARBON	82K	5%	1/4W
R613	1-249-414-11	CARBON	560	5%	1/4W F
⚠R614	1-249-405-11	CARBON	100	5%	1/4W F
⚠R615	1-249-405-11	CARBON	100	5%	1/4W F
⚠R616	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R617	1-249-393-11	CARBON	10	5%	1/4W F
⚠R618	1-249-389-11	CARBON	4.7	5%	1/4W F
R620	1-249-425-11	CARBON	4.7K	5%	1/4W F
R621	1-247-850-11	CARBON	6.2K	5%	1/4W
R622	1-249-419-11	CARBON	1.5K	5%	1/4W F
R623	1-249-437-11	CARBON	47K	5%	1/4W
R624	1-249-431-11	CARBON	15K	5%	1/4W
R625	1-249-439-11	CARBON	68K	5%	1/4W
R631	1-249-425-11	CARBON	4.7K	5%	1/4W F
⚠R634	1-249-404-00	CARBON	82	5%	1/4W F
R638	1-249-439-11	CARBON	68K	5%	1/4W
R640	1-249-433-11	CARBON	22K	5%	1/4W
R648	1-247-843-11	CARBON	3.3K	5%	1/4W
R651	1-249-417-11	CARBON	1K	5%	1/4W F
R652	1-249-439-11	CARBON	68K	5%	1/4W
R653	1-249-421-11	CARBON	2.2K	5%	1/4W F
R654	1-249-439-11	CARBON	68K	5%	1/4W
R655	1-249-433-11	CARBON	22K	5%	1/4W
R656	1-249-433-11	CARBON	22K	5%	1/4W
R657	1-249-431-11	CARBON	15K	5%	1/4W
R660	1-249-421-11	CARBON	2.2K	5%	1/4W F
R661	1-249-440-11	CARBON	82K	5%	1/4W
R663	1-249-414-11	CARBON	560	5%	1/4W F
⚠R664	1-249-405-11	CARBON	100	5%	1/4W F
⚠R665	1-249-405-11	CARBON	100	5%	1/4W F
⚠R666	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R667	1-249-393-11	CARBON	10	5%	1/4W F
⚠R668	1-249-389-11	CARBON	4.7	5%	1/4W F
R669	1-249-425-11	CARBON	4.7K	5%	1/4W F
R671	1-247-850-11	CARBON	6.2K	5%	1/4W
R672	1-249-419-11	CARBON	1.5K	5%	1/4W F
R673	1-249-437-11	CARBON	47K	5%	1/4W
R674	1-249-431-11	CARBON	15K	5%	1/4W
R675	1-249-433-11	CARBON	22K	5%	1/4W
R676	1-249-433-11	CARBON	22K	5%	1/4W
R677	1-249-431-11	CARBON	15K	5%	1/4W
R680	1-249-433-11	CARBON	22K	5%	1/4W
R681	1-247-843-11	CARBON	3.3K	5%	1/4W
R690	1-247-887-00	CARBON	220K	5%	1/4W
R691	1-215-888-00	METAL OXIDE	220	5%	2W
R692	1-215-889-00	METAL OXIDE	330	5%	2W
R693	1-249-429-11	CARBON	10K	5%	1/4W
R694	1-249-429-11	CARBON	10K	5%	1/4W
R695	1-249-429-11	CARBON	10K	5%	1/4W
R696	1-249-435-11	CARBON	33K	5%	1/4W
R698	1-249-429-11	CARBON	10K	5%	1/4W
R699	1-247-895-00	CARBON	470K	5%	1/4W
R701	1-249-417-11	CARBON	1K	5%	1/4W F
R702	1-249-439-11	CARBON	68K	5%	1/4W
R703	1-249-421-11	CARBON	2.2K	5%	1/4W F
R704	1-249-439-11	CARBON	68K	5%	1/4W
R710	1-249-421-11	CARBON	2.2K	5%	1/4W F
R711	1-249-440-11	CARBON	82K	5%	1/4W
R713	1-249-414-11	CARBON	560	5%	1/4W F
⚠R714	1-249-405-11	CARBON	100	5%	1/4W F

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remarks
⚠R715	1-249-405-11	CARBON	100	5%	1/4W F
⚠R716	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R717	1-249-393-11	CARBON	10	5%	1/4W F
⚠R718	1-249-389-11	CARBON	4.7	5%	1/4W F
R719	1-249-425-11	CARBON	4.7K	5%	1/4W F
R721	1-247-850-11	CARBON	6.2K	5%	1/4W
R722	1-249-419-11	CARBON	1.5K	5%	1/4W F
R723	1-249-437-11	CARBON	47K	5%	1/4W
R724	1-249-431-11	CARBON	15K	5%	1/4W
R725	1-249-439-11	CARBON	68K	5%	1/4W
R731	1-249-425-11	CARBON	4.7K	5%	1/4W F
⚠R732	1-249-381-11	CARBON	1	5%	1/4W F
⚠R733	1-249-381-11	CARBON	1	5%	1/4W F
⚠R734	1-249-404-00	CARBON	82	5%	1/4W F
R735	1-249-427-11	CARBON	6.8K	5%	1/4W F
R736	1-249-417-11	CARBON	1K	5%	1/4W F
R737	1-249-436-11	CARBON	39K	5%	1/4W
R740	1-249-433-11	CARBON	22K	5%	1/4W
R742	1-249-437-11	CARBON	47K	5%	1/4W
R743	1-249-433-11	CARBON	22K	5%	1/4W
R744	1-249-433-11	CARBON	22K	5%	1/4W
R745	1-249-433-11	CARBON	22K	5%	1/4W
R746	1-249-433-11	CARBON	22K	5%	1/4W
R747	1-249-431-11	CARBON	15K	5%	1/4W
R748	1-247-843-11	CARBON	3.3K	5%	1/4W
R750	1-249-433-11	CARBON	22K	5%	1/4W
R751	1-249-417-11	CARBON	1K	5%	1/4W F
R752	1-249-439-11	CARBON	68K	5%	1/4W
R753	1-249-421-11	CARBON	2.2K	5%	1/4W F
R754	1-249-439-11	CARBON	68K	5%	1/4W
R755	1-249-433-11	CARBON	22K	5%	1/4W
R756	1-249-433-11	CARBON	22K	5%	1/4W
R757	1-249-431-11	CARBON	15K	5%	1/4W
R758	1-247-843-11	CARBON	3.3K	5%	1/4W
R760	1-249-421-11	CARBON	2.2K	5%	1/4W F
R761	1-249-440-11	CARBON	82K	5%	1/4W
R763	1-249-414-11	CARBON	560	5%	1/4W F
⚠R764	1-249-405-11	CARBON	100	5%	1/4W F
⚠R765	1-249-405-11	CARBON	100	5%	1/4W F
⚠R766	1-234-182-11	ENCAPSULATED COMPONENT			
⚠R767	1-249-393-11	CARBON	10	5%	1/4W F
⚠R768	1-249-389-11	CARBON	4.7	5%	1/4W F
R769	1-249-425-11	CARBON	4.7K	5%	1/4W F
R770	1-249-437-11	CARBON	47K	5%	1/4W
R771	1-247-850-11	CARBON	6.2K	5%	1/4W
R772	1-249-419-11	CARBON	1.5K	5%	1/4W F
R773	1-249-437-11	CARBON	47K	5%	1/4W
R775	1-249-439-11	CARBON	68K	5%	1/4W
R778	1-249-431-11	CARBON	15K	5%	1/4W
R780	1-249-429-11	CARBON	10K	5%	1/4W
R791	1-249-425-11	CARBON	4.7K	5%	1/4W F
R792	1-215-868-00	METAL OXIDE	680	5%	1W
⚠R793	1-249-404-00	CARBON	82	5%	1/4W F
R794	1-215-868-00	METAL OXIDE	680	5%	1W
⚠R802	1-249-409-11	CARBON	220	5%	1/4W F
⚠R803	1-249-389-11	CARBON	4.7	5%	1/4W F
R804	1-249-426-11	CARBON	5.6K	5%	1/4W
R806	1-249-433-11	CARBON	22K	5%	1/4W
⚠R910	1-243-635-11	FUSIBLE	0.33	5%	1/2W

Ref. No.	Part No.	Description			Remarks
		< RELAY >			
RY501	1-515-921-11	RELAY			
RY560	1-755-267-11	RELAY			
RY601	1-515-921-11	RELAY			
RY701	1-515-921-11	RELAY			
RY791	1-515-921-11	RELAY			
		< TERMINAL >			
TM601	1-694-805-11	TERMINAL BOARD (CENTER/SURROUND)			
TM602	1-694-785-11	TERMINAL BOARD (FRONT)			
**********					
		POWER BOARD			
		**********			
		< CONNECTOR >			
* CNP102	1-564-518-11	PLUG, CONNECTOR 3P			
		< SWITCH >			
S152	1-771-410-21	SWITCH, TACTILE (**I**/⏻)			
**********					
	1-686-904-11	STANDBY BOARD			
		**********			
		< CAPACITOR >			
C813	1-164-159-11	CERAMIC	0.1uF		50V
C814	1-164-159-11	CERAMIC	0.1uF		50V
C815	1-126-943-11	ELECT	2200uF	20.00%	25V
C816	1-126-942-61	ELECT	1000uF	20.00%	25V
C920	1-164-159-11	CERAMIC	0.1uF		50V
C921	1-164-159-11	CERAMIC	0.1uF		50V
C923	1-126-959-11	ELECT	0.47uF	20.00%	50V
C950	1-126-936-11	ELECT	3300uF	20.00%	16V
		< CONNECTOR >			
CNP901	1-564-321-00	PIN, CONNECTOR(3.96mm PITCH)2P			
* CNP902	1-565-792-11	PIN, CONNECTOR(3.96mm PITCH)2P			
CNP903	1-564-506-11	PLUG, CONNECTOR 3P			
CNP905	1-779-495-11	PLUG, CONNECTOR PIN 4P			
CNP912	1-779-978-11	PIN, CONNECTOR 3P			
		< DIODE >			
D820	8-719-024-99	DIODE 11ES2-NTA2B			
D821	8-719-024-99	DIODE 11ES2-NTA2B			
D822	8-719-024-99	DIODE 11ES2-NTA2B			
D823	8-719-024-99	DIODE 11ES2-NTA2B			
D901	8-719-911-19	DIODE 1SS133T-72			
D910	8-719-024-99	DIODE 11ES2-NTA2B			
D911	8-719-024-99	DIODE 11ES2-NTA2B			
D912	8-719-024-99	DIODE 11ES2-NTA2B			
D913	8-719-024-99	DIODE 11ES2-NTA2B			
D914	8-719-911-19	DIODE 1SS133T-72			
D915	8-719-911-19	DIODE 1SS133T-72			
		< EARTH TERMINAL >			
* G901	1-537-738-21	TERMINAL, EARTH			

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

STANDBY | VIDEO | VOLUME

Ref. No.	Part No.	Description				Remarks
		< FUSE HOLDER >				
FH901	1-533-293-11	FUSE HOLDER				
FH902	1-533-293-11	FUSE HOLDER				
		< TRANSISTOR >				
Q901	8-729-119-79	TRANSISTOR	2SC2785TP-FEK			
Q921	8-729-119-79	TRANSISTOR	2SC2785TP-FEK			
		< RESISTOR >				
⚠R810	1-243-634-91	FUSIBLE	0.22	5%	1/2W	
⚠R812	1-243-634-91	FUSIBLE	0.22	5%	1/2W	
⚠R901	1-219-237-91	SOLID	3.3M	20%	1/2W	
R902	1-249-437-11	CARBON	47K	5%	1/4W	
R903	1-249-425-11	CARBON	4.7K	5%	1/4W	F
⚠R904	1-249-381-11	CARBON	1	5%	1/4W	F
R921	1-249-437-11	CARBON	47K	5%	1/4W	
R922	1-249-435-11	CARBON	33K	5%	1/4W	
R923	1-249-429-11	CARBON	10K	5%	1/4W	
		< RELAY >				
⚠RY901	1-755-276-11	RELAY, POWER				
		< TRANSFORMER >				
T902	1-435-281-11	TRANSFORMER, POWER				
**********						
	A-4731-175-A	VIDEO BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C200	1-128-805-11	CERAMIC	47PF	5%	50V	
C201	1-128-805-11	CERAMIC	47PF	5%	50V	
C206	1-126-964-11	ELECT	10uF	20.00%	50V	
C207	1-126-964-11	ELECT	10uF	20.00%	50V	
C208	1-126-964-11	ELECT	10uF	20.00%	50V	
C210	1-126-964-11	ELECT	10uF	20.00%	50V	
C213	1-126-934-11	ELECT	220uF	20.00%	16V	
C214	1-164-159-11	CERAMIC	0.1uF		50V	
C215	1-164-159-11	CERAMIC	0.1uF		50V	
C248	1-128-825-11	CERAMIC	2200PF	5%	50V	
C809	1-126-934-11	ELECT	220uF	20.00%	16V	
C824	1-164-159-11	CERAMIC	0.1uF		50V	
C825	1-164-159-11	CERAMIC	0.1uF		50V	
C827	1-126-947-11	ELECT	47uF	20.00%	25V	
		< CONNECTOR >				
CNP156	1-691-765-11	PLUG (MICRO CONNECTOR) 3P				
		< CONNECTOR SOCKET >				
CNS250	1-569-315-11	SOCKET, CONNECTOR 5P				
		< DIODE >				
D203	8-719-911-19	DIODE 1SS133T-72				
D204	8-719-911-19	DIODE 1SS133T-72				

Ref. No.	Part No.	Description				Remarks
		< IC >				
IC103	6-701-890-01	IC NJM2595D				
IC804	8-759-701-65	IC NJM79M05FA				
IC807	8-759-039-69	IC uPC7805AHF				
		< JACK >				
J200	1-794-978-11	JACK, PIN 3P (VIDEO1,VIDEO2,DVD)				
J201	1-815-043-11	JACK, PIN 2P (VIDEO1,MONITOR)				
		< RESISTOR >				
R200	1-247-804-11	CARBON	75	5%	1/4W	
R201	1-247-804-11	CARBON	75	5%	1/4W	
R218	1-247-804-11	CARBON	75	5%	1/4W	
R220	1-247-804-11	CARBON	75	5%	1/4W	
R221	1-247-804-11	CARBON	75	5%	1/4W	
**********						
		VOLUME BOARD				
		**********				
		< CONNECTOR >				
* CNP104	1-564-518-11	PLUG, CONNECTOR 3P				
		< VARIABLE RESISTOR >				
RV102	1-418-725-41	ENCODER, ROTARY (12 TYPE) (MASTER VOLUME)				
**********						
		MISCELLANEOUS				
		**********				
⚠57	1-783-532-11	CORD, POWER				
61	1-769-937-11	WIRE (FLAT TYPE) (11 CORE)				
62	1-693-577-22	TUNER				
65	1-575-662-31	WIRE (FLAT TYPE) (5 CORE)				
⚠F901	1-576-109-11	FUSE 6.3A/125V				
Q503	8-749-010-25	IC MN2488-OPY-M				
Q504	8-749-010-26	IC MP1620-OPY-M				
Q603	8-749-010-25	IC MN2488-OPY-M				
Q604	8-749-010-26	IC MP1620-OPY-M				
Q653	8-749-010-25	IC MN2488-OPY-M				
Q654	8-749-010-26	IC MP1620-OPY-M				
Q703	8-749-010-25	IC MN2488-OPY-M				
Q704	8-749-010-26	IC MP1620-OPY-M				
Q753	8-749-010-25	IC MN2488-OPY-M				
Q754	8-749-010-26	IC MP1620-OPY-M				
⚠T901	1-437-995-11	POWER TRANSFORMER				

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MEMO

REVISION HISTORY

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Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2003.04	New